# Algebra II Lesson \#3 Unit 2 

## Notes \#3

## Class Worksheet \#3

For Worksheets \#3 \& \#4

## Algebra II Class Worksheet \#3 Unit 2

Write the equation of each line described. If the line is oblique, use slope-intercept form. Graph both equations.

1. The line through $(0,1)$ parallel to $-5 x+2 y=-4$


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-5 x+2 y=-4
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\begin{aligned}
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& 2 y=
\end{aligned}
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$$
\begin{aligned}
& -5 x+2 y=-4 \\
& 2 y=5 x
\end{aligned}
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\begin{array}{ll}
y=m x+b & -5 x+2 y=-4 \\
m_{2}=5 / 2 & 2 y=5 x-4 \\
b=1 & y=\frac{5}{2} x-2 \\
y= & m_{1}=5 / 2
\end{array}
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b=1 & y=\frac{5}{2} x-2 \\
y=\frac{5}{2} x & m_{1}=5 / 2
\end{array}
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y=\frac{5}{2} x+1
$$

$$
\mathbf{y}=\mathbf{m} \mathbf{x}+\mathbf{b}
$$

$$
m_{2}=5 / 2
$$

$$
b=1
$$

$$
y=\frac{5}{2} x+1
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-5 x+2 y=-4 \\
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m_{1}=-4 / 3
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y=m x+b & 4 x+3 y=9 \\
m_{2}=-4 / 3 & 3 y=-4 x+9 \\
b=? & y=-4 \\
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\end{array}
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$\mathbf{y}-\mathbf{y}_{1}=\mathbf{m}\left(\mathbf{x}-\mathbf{x}_{1}\right)$

$$
m_{1}=-4 / 3
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m_{1}=-4 / 3
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y-2=\frac{-4}{3}(x--3)
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$$
\mathbf{y}=
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y=\frac{-4}{3} x-2
$$

$$
\mathbf{y}=\mathbf{m} \mathbf{x}+\mathbf{b}
$$

$$
4 x+3 y=9
$$

$$
m_{2}=-4 / 3
$$

$$
3 y=-4 x+9
$$

$$
b=?
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\begin{gathered}
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\end{gathered}
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$$
\begin{gathered}
y-y_{1}=m\left(x-x_{1}\right) \\
y-2=\frac{-4}{3}(x+3) \\
y-2=\frac{-4}{3} x-4 \\
y=\frac{-4}{3} x-2
\end{gathered}
$$

## Algebra II Class Worksheet \#3 Unit 2

Write the equation of each line described. If the line is oblique, use slope-intercept form. Graph both equations.
3. The line through $(2,5)$ parallel to $x-3 y=6$


## Algebra II Class Worksheet \#3 Unit 2

Write the equation of each line described. If the line is oblique, use slope-intercept form. Graph both equations.
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Write the equation of each line described. If the line is oblique, use slope-intercept form. Graph both equations.
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## Algebra II Class Worksheet \#3 Unit 2

Write the equation of each line described. If the line is oblique, use slope-intercept form. Graph both equations.
3. The line through $(2,5)$ parallel to $x-3 y=6$ oblique line


## Algebra II Class Worksheet \#3 Unit 2

Write the equation of each line described. If the line is oblique, use slope-intercept form. Graph both equations.
3. The line through $(2,5)$ parallel to $x-3 y=6$ oblique line

$$
x-3 y=6
$$



## Algebra II Class Worksheet \#3 Unit 2

Write the equation of each line described. If the line is oblique, use slope-intercept form. Graph both equations.
3. The line through $(2,5)$ parallel to $x-3 y=6$ oblique line

$$
\begin{aligned}
& x-3 y=6 \\
& -3 y=
\end{aligned}
$$



## Algebra II Class Worksheet \#3 Unit 2

Write the equation of each line described. If the line is oblique, use slope-intercept form. Graph both equations.
3. The line through $(2,5)$ parallel to $x-3 y=6$ oblique line

$$
\begin{aligned}
& x-3 y=6 \\
& -3 y=-x
\end{aligned}
$$



## Algebra II Class Worksheet \#3 Unit 2

Write the equation of each line described. If the line is oblique, use slope-intercept form. Graph both equations.
3. The line through $(2,5)$ parallel to $x-3 y=6$ oblique line

$$
\begin{gathered}
x-3 y=6 \\
-3 y=-x+6
\end{gathered}
$$



## Algebra II Class Worksheet \#3 Unit 2

Write the equation of each line described. If the line is oblique, use slope-intercept form. Graph both equations.
3. The line through $(2,5)$ parallel to $x-3 y=6$ oblique line

$$
\begin{aligned}
& x-3 y=6 \\
& -3 y=-x+6 \\
& y=
\end{aligned}
$$



## Algebra II Class Worksheet \#3 Unit 2

Write the equation of each line described. If the line is oblique, use slope-intercept form. Graph both equations.
3. The line through $(2,5)$ parallel to $x-3 y=6$ oblique line

$$
\begin{aligned}
& x-3 y=6 \\
& -3 y=-x+6 \\
& y=\frac{1}{3} x
\end{aligned}
$$



## Algebra II Class Worksheet \#3 Unit 2

Write the equation of each line described. If the line is oblique, use slope-intercept form. Graph both equations.
3. The line through $(2,5)$ parallel to $x-3 y=6$ oblique line

$$
\begin{gathered}
x-3 y=6 \\
-3 y=-x+6 \\
y=\frac{1}{3} x-2
\end{gathered}
$$



## Algebra II Class Worksheet \#3 Unit 2

Write the equation of each line described. If the line is oblique, use slope-intercept form. Graph both equations.
3. The line through $(2,5)$ parallel to $x-3 y=6$ oblique line

$$
\begin{aligned}
& x-3 y=6 \\
& -3 y=-x+6 \\
& y=\frac{1}{3} x-2 \\
& m_{1}=1 / 3
\end{aligned}
$$



## Algebra II Class Worksheet \#3 Unit 2

Write the equation of each line described. If the line is oblique, use slope-intercept form. Graph both equations.
3. The line through $(2,5)$ parallel to $x-3 y=6$ oblique line

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\begin{aligned}
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& -3 y=-x+6 \\
& y=\frac{1}{3} x-2 \\
& m_{1}=1 / 3
\end{aligned}
$$



## Algebra II Class Worksheet \#3 Unit 2

Write the equation of each line described. If the line is oblique, use slope-intercept form. Graph both equations.
3. The line through $(2,5)$ parallel to $x-3 y=6$ oblique line

$$
y=m x+b \quad \begin{aligned}
& x-3 y=6 \\
& -3 y=-x+6 \\
& y=\frac{1}{3} x-2 \\
& m_{1}=1 / 3
\end{aligned}
$$



## Algebra II Class Worksheet \#3 Unit 2

Write the equation of each line described. If the line is oblique, use slope-intercept form. Graph both equations.
3. The line through $(2,5)$ parallel to $x-3 y=6$ oblique line

$$
\begin{array}{ll}
y=m x+b & x-3 y=6 \\
m_{2}= & -3 y=-x+6 \\
& y=\frac{1}{3} x-2 \\
& m_{1}=1 / 3
\end{array}
$$



## Algebra II Class Worksheet \#3 Unit 2

Write the equation of each line described. If the line is oblique, use slope-intercept form. Graph both equations.
3. The line through $(2,5)$ parallel to $x-3 y=6$ oblique line

$$
\begin{array}{ll}
y=m x+b & x-3 y=6 \\
m_{2}=1 / 3 & -3 y=-x+6 \\
& y=\frac{1}{3} x-2 \\
& m_{1}=1 / 3
\end{array}
$$



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y=m x+b & x-3 y=6 \\
m_{2}=1 / 3 & -3 y=-x+6 \\
& y=\frac{1}{3} x-2 \\
& m_{1}=1 / 3
\end{array}
$$



## Algebra II Class Worksheet \#3 Unit 2

Write the equation of each line described. If the line is oblique, use slope-intercept form. Graph both equations.
3. The line through $(2,5)$ parallel to $x-3 y=6$ oblique line

$$
\begin{array}{cc}
y=m x+b & x-3 y=6 \\
m_{2}=1 / 3 & -3 y=-x+6 \\
b=? & y=\frac{1}{3} x-2 \\
& m_{1}=1 / 3
\end{array}
$$



## Algebra II Class Worksheet \#3 Unit 2

Write the equation of each line described. If the line is oblique, use slope-intercept form. Graph both equations.
3. The line through $(2,5)$ parallel to $x-3 y=6$ oblique line

$$
\begin{array}{cc}
y=m x+b & x-3 y=6 \\
m_{2}=1 / 3 & -3 y=-x+6 \\
b=? & y=\frac{1}{3} x-2
\end{array}
$$

$\mathbf{y}-\mathbf{y}_{1}=\mathbf{m}\left(\mathbf{x}-\mathbf{x}_{1}\right)$

$$
m_{1}=1 / 3
$$



## Algebra II Class Worksheet \#3 Unit 2

Write the equation of each line described. If the line is oblique, use slope-intercept form. Graph both equations.
3. The line through $(2,5)$ parallel to $x-3 y=6$ oblique line

$$
\begin{array}{cc}
y=m x+b & x-3 y=6 \\
m_{2}=1 / 3 & -3 y=-x+6 \\
b=? & y=\frac{1}{3} x-2
\end{array}
$$

$\mathbf{y}-\mathbf{y}_{1}=\mathbf{m}\left(\mathbf{x}-\mathbf{x}_{1}\right)$

$$
m_{1}=1 / 3
$$

$y-5=$


## Algebra II Class Worksheet \#3 Unit 2

Write the equation of each line described. If the line is oblique, use slope-intercept form. Graph both equations.
3. The line through $(2,5)$ parallel to $x-3 y=6$ oblique line

$$
\begin{array}{cc}
y=m x+b & x-3 y=6 \\
m_{2}=1 / 3 & -3 y=-x+6 \\
b=? & y=\frac{1}{3} x-2
\end{array}
$$

$\mathbf{y}-\mathbf{y}_{1}=\mathbf{m}\left(\mathbf{x}-\mathbf{x}_{1}\right)$

$$
m_{1}=1 / 3
$$

$$
y-5=\frac{1}{3}(
$$



## Algebra II Class Worksheet \#3 Unit 2

Write the equation of each line described. If the line is oblique, use slope-intercept form. Graph both equations.
3. The line through $(2,5)$ parallel to $x-3 y=6$ oblique line

$$
\begin{array}{cc}
y=m x+b & x-3 y=6 \\
m_{2}=1 / 3 & -3 y=-x+6 \\
b=? & y=\frac{1}{3} x-2
\end{array}
$$

$\mathbf{y}-\mathbf{y}_{1}=\mathbf{m}\left(\mathbf{x}-\mathbf{x}_{1}\right)$

$$
m_{1}=1 / 3
$$

$$
y-5=\frac{1}{3}(x-2)
$$



## Algebra II Class Worksheet \#3 Unit 2

Write the equation of each line described. If the line is oblique, use slope-intercept form. Graph both equations.
3. The line through $(2,5)$ parallel to $x-3 y=6$ oblique line

$$
\begin{array}{cc}
y=m x+b & x-3 y=6 \\
m_{2}=1 / 3 & -3 y=-x+6 \\
b=? & y=\frac{1}{3} x-2
\end{array}
$$

$\mathbf{y}-\mathbf{y}_{1}=\mathbf{m}\left(\mathbf{x}-\mathbf{x}_{1}\right)$

$$
m_{1}=1 / 3
$$

$$
y-5=\frac{1}{3}(x-2)
$$

$$
y-5=
$$



## Algebra II Class Worksheet \#3 Unit 2

Write the equation of each line described. If the line is oblique, use slope-intercept form. Graph both equations.
3. The line through $(2,5)$ parallel to $x-3 y=6$ oblique line

$$
\begin{array}{cc}
y=m x+b & x-3 y=6 \\
m_{2}=1 / 3 & -3 y=-x+6 \\
b=? & y=\frac{1}{3} x-2
\end{array}
$$

$$
\mathbf{y}-\mathbf{y}_{1}=\mathbf{m}\left(\mathbf{x}-\mathbf{x}_{1}\right)
$$

$$
m_{1}=1 / 3
$$

$$
\begin{aligned}
& y-5=\frac{1}{3}(x-2) \\
& y-5=\frac{1}{3} x
\end{aligned}
$$



## Algebra II Class Worksheet \#3 Unit 2

Write the equation of each line described. If the line is oblique, use slope-intercept form. Graph both equations.
3. The line through $(2,5)$ parallel to $x-3 y=6$ oblique line

$$
\begin{array}{cc}
y=m x+b & x-3 y=6 \\
m_{2}=1 / 3 & -3 y=-x+6 \\
b=? & y=\frac{1}{3} x-2
\end{array}
$$

$$
\mathbf{y}-\mathbf{y}_{1}=\mathbf{m}\left(\mathbf{x}-\mathbf{x}_{1}\right)
$$

$$
m_{1}=1 / 3
$$

$$
\begin{aligned}
& y-5=\frac{1}{3}(x-2) \\
& y-5=\frac{1}{3} x-\frac{2}{3}
\end{aligned}
$$



## Algebra II Class Worksheet \#3 Unit 2

Write the equation of each line described. If the line is oblique, use slope-intercept form. Graph both equations.
3. The line through $(2,5)$ parallel to $x-3 y=6$ oblique line

$$
\begin{array}{cc}
y=m x+b & x-3 y=6 \\
m_{2}=1 / 3 & -3 y=-x+6 \\
b=? & y=\frac{1}{3} x-2
\end{array}
$$

$y-y_{1}=\mathbf{m}\left(x-x_{1}\right)$
$m_{1}=1 / 3$

$$
\begin{aligned}
& y-5=\frac{1}{3}(x-2) \\
& y-5=\frac{1}{3} x-\frac{2}{3}
\end{aligned}
$$



$$
\mathbf{y}=
$$

## Algebra II Class Worksheet \#3 Unit 2

Write the equation of each line described. If the line is oblique, use slope-intercept form. Graph both equations.
3. The line through $(2,5)$ parallel to $x-3 y=6$ oblique line

$$
\begin{array}{cc}
y=m x+b & x-3 y=6 \\
m_{2}=1 / 3 & -3 y=-x+6 \\
b=? & y=\frac{1}{3} x-2
\end{array}
$$

$$
\mathbf{y}-\mathbf{y}_{1}=\mathbf{m}\left(\mathbf{x}-\mathbf{x}_{1}\right)
$$

$$
m_{1}=1 / 3
$$

$$
\begin{aligned}
& y-5=\frac{1}{3}(x-2) \\
& y-5=\frac{1}{3} x-\frac{2}{3}
\end{aligned}
$$



$$
y=\frac{1}{3} x
$$

## Algebra II Class Worksheet \#3 Unit 2

Write the equation of each line described. If the line is oblique, use slope-intercept form. Graph both equations.
3. The line through $(2,5)$ parallel to $x-3 y=6$ oblique line

$$
\begin{array}{cc}
y=m x+b & x-3 y=6 \\
m_{2}=1 / 3 & -3 y=-x+6 \\
b=? & y=\frac{1}{3} x-2
\end{array}
$$

$$
\mathbf{y}-\mathbf{y}_{1}=\mathbf{m}\left(\mathbf{x}-\mathbf{x}_{1}\right)
$$

$$
m_{1}=1 / 3
$$

$$
y-5=\frac{1}{3}(x-2)
$$

$$
y-5=\frac{1}{3} x-\frac{2}{3}
$$



$$
y=\frac{1}{3} x+\frac{13}{3}
$$

## Algebra II Class Worksheet \#3 Unit 2

Write the equation of each line described. If the line is oblique, use slope-intercept form. Graph both equations.
3. The line through $(2,5)$ parallel to $x-3 y=6$
oblique line

$$
\mathbf{y}=\mathbf{m x}+\mathbf{b}
$$

$$
\mathrm{m}_{2}=1 / 3
$$

$$
b=?
$$

$y-y_{1}=m\left(x-x_{1}\right)$
$y-5=\frac{1}{3}(x-2)$
$y-5=\frac{1}{3} x-\frac{2}{3}$

$$
y=\frac{1}{3} x+\frac{13}{3}
$$

## Algebra II Class Worksheet \#3 Unit 2

Write the equation of each line described. If the line is oblique, use slope-intercept form. Graph both equations.
3. The line through $(2,5)$ parallel to $x-3 y=6$
oblique line

$$
\mathbf{y}=\mathbf{m x}+\mathbf{b}
$$

$$
m_{2}=1 / 3
$$

$$
b=?
$$

$y-y_{1}=m\left(x-x_{1}\right)$
$y-5=\frac{1}{3}(x-2)$
$y-5=\frac{1}{3} x-\frac{2}{3}$

$$
y=\frac{1}{3} x+\frac{13}{3}
$$

$y=\frac{1}{3} x+\frac{13}{3}$

$$
x-3 y=6
$$

$$
-3 y=-x+6
$$

$$
y=\frac{1}{3} x-2
$$

$$
\mathrm{m}_{1}=1 / 3
$$



## Algebra II Class Worksheet \#3 Unit 2

Write the equation of each line described. If the line is oblique, use slope-intercept form. Graph both equations.
3. The line through $(2,5)$ parallel to $x-3 y=6$

## oblique line

$$
\mathbf{y}=\mathbf{m} \mathbf{x}+\mathbf{b}
$$

$$
m_{2}=1 / 3
$$

$$
b=?
$$

$$
\begin{gathered}
y-y_{1}=\mathbf{m}\left(x-x_{1}\right) \\
y-5=\frac{1}{3}(x-2) \\
y-5=\frac{1}{3} x-\frac{2}{3} \\
y=\frac{1}{3} x+\frac{13}{3}
\end{gathered}
$$

$y=\frac{1}{3} x+\frac{13}{3}$


## Algebra II Class Worksheet \#3 Unit 2

Write the equation of each line described. If the line is oblique, use slope-intercept form. Graph both equations.
4. The line through $(0,4)$ perpendicular to $2 x-3 y=9$


## Algebra II Class Worksheet \#3 Unit 2

Write the equation of each line described. If the line is oblique, use slope-intercept form. Graph both equations.
4. The line through $(0,4)$ perpendicular to $2 x-3 y=9$


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Write the equation of each line described. If the line is oblique, use slope-intercept form. Graph both equations.
4. The line through $(0,4)$ perpendicular to $2 x-3 y=9$ oblique line


## Algebra II Class Worksheet \#3 Unit 2

Write the equation of each line described. If the line is oblique, use slope-intercept form. Graph both equations.
4. The line through $(0,4)$ perpendicular to $2 x-3 y=9$ oblique line

$$
2 x-3 y=9
$$



## Algebra II Class Worksheet \#3 Unit 2

Write the equation of each line described. If the line is oblique, use slope-intercept form. Graph both equations.
4. The line through $(0,4)$ perpendicular to $2 x-3 y=9$
oblique line

$$
\begin{aligned}
& 2 x-3 y=9 \\
& -3 y=
\end{aligned}
$$



## Algebra II Class Worksheet \#3 Unit 2

Write the equation of each line described. If the line is oblique, use slope-intercept form. Graph both equations.
4. The line through $(0,4)$ perpendicular to $2 x-3 y=9$
oblique line

$$
\begin{aligned}
& 2 x-3 y=9 \\
& -3 y=-2 x
\end{aligned}
$$



## Algebra II Class Worksheet \#3 Unit 2

Write the equation of each line described. If the line is oblique, use slope-intercept form. Graph both equations.
4. The line through $(0,4)$ perpendicular to $2 x-3 y=9$
oblique line

$$
\begin{aligned}
& 2 x-3 y=9 \\
& -3 y=-2 x+9
\end{aligned}
$$



## Algebra II Class Worksheet \#3 Unit 2

Write the equation of each line described. If the line is oblique, use slope-intercept form. Graph both equations.
4. The line through $(0,4)$ perpendicular to $2 x-3 y=9$
oblique line

$$
\begin{aligned}
& 2 x-3 y=9 \\
& -3 y=-2 x+9 \\
& y=
\end{aligned}
$$



## Algebra II Class Worksheet \#3 Unit 2

Write the equation of each line described. If the line is oblique, use slope-intercept form. Graph both equations.
4. The line through $(0,4)$ perpendicular to $2 x-3 y=9$
oblique line

$$
\begin{gathered}
2 x-3 y=9 \\
-3 y=-2 x+9 \\
y=\frac{2}{3} x
\end{gathered}
$$



## Algebra II Class Worksheet \#3 Unit 2

Write the equation of each line described. If the line is oblique, use slope-intercept form. Graph both equations.
4. The line through $(0,4)$ perpendicular to $2 x-3 y=9$
oblique line

$$
\begin{gathered}
2 x-3 y=9 \\
-3 y=-2 x+9 \\
y=\frac{2}{3} x-3
\end{gathered}
$$



## Algebra II Class Worksheet \#3 Unit 2

Write the equation of each line described. If the line is oblique, use slope-intercept form. Graph both equations.
4. The line through $(0,4)$ perpendicular to $2 x-3 y=9$
oblique line

$$
\begin{gathered}
2 x-3 y=9 \\
-3 y=-2 x+9 \\
y=\frac{2}{3} x-3 \\
m_{1}=2 / 3
\end{gathered}
$$



## Algebra II Class Worksheet \#3 Unit 2

Write the equation of each line described. If the line is oblique, use slope-intercept form. Graph both equations.
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oblique line

$$
\begin{gathered}
2 x-3 y=9 \\
-3 y=-2 x+9 \\
y=\frac{2}{3} x-3 \\
m_{1}=2 / 3
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\begin{gathered}
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-3 y=-2 x+9 \\
y=\frac{2}{3} x-3 \\
m_{1}=2 / 3
\end{gathered}
$$



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Write the equation of each line described. If the line is oblique, use slope-intercept form. Graph both equations.
4. The line through $(0,4)$ perpendicular to $2 x-3 y=9$
oblique line

$$
\begin{array}{ll}
\mathbf{y}=\mathrm{mx}+\mathrm{b} & 2 x-3 y=9 \\
\mathbf{m}_{2}= & -3 y=-2 x+9 \\
y=\frac{2}{3} x-3 \\
m_{1}=2 / 3
\end{array}
$$



## Algebra II Class Worksheet \#3 Unit 2

Write the equation of each line described. If the line is oblique, use slope-intercept form. Graph both equations.
4. The line through $(0,4)$ perpendicular to $2 x-3 y=9$
oblique line

$$
\begin{array}{ll}
y=m x+b & 2 x-3 y=9 \\
m_{2}=-3 / 2 & -3 y=-2 x+9 \\
& y=\frac{2}{3} x-3 \\
& m_{1}=2 / 3
\end{array}
$$



## Algebra II Class Worksheet \#3 Unit 2

Write the equation of each line described. If the line is oblique, use slope-intercept form. Graph both equations.
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y=m x+b & 2 x-3 y=9 \\
m_{2}=-3 / 2 & -3 y=-2 x+9 \\
& y=\frac{2}{3} x-3 \\
& m_{1}=2 / 3
\end{array}
$$



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4. The line through $(0,4)$ perpendicular to $2 x-3 y=9$
oblique line

$$
\begin{array}{cc}
y=m x+b & 2 x-3 y=9 \\
m_{2}=-3 / 2 & -3 y=-2 x+9 \\
b=4 & y=\frac{2}{3} x-3 \\
m_{1}=2 / 3
\end{array}
$$



## Algebra II Class Worksheet \#3 Unit 2

Write the equation of each line described. If the line is oblique, use slope-intercept form. Graph both equations.
4. The line through $(0,4)$ perpendicular to $2 x-3 y=9$
oblique line

$$
\begin{array}{ll}
y=m x+b & 2 x-3 y=9 \\
m_{2}=-3 / 2 & -3 y=-2 x+9 \\
b=4 & y=\frac{2}{3} x-3 \\
y= & m_{1}=2 / 3
\end{array}
$$



## Algebra II Class Worksheet \#3 Unit 2

Write the equation of each line described. If the line is oblique, use slope-intercept form. Graph both equations.
4. The line through $(0,4)$ perpendicular to $2 x-3 y=9$
oblique line

$$
\begin{array}{cc}
y=m x+b & 2 x-3 y=9 \\
m_{2}=-3 / 2 & -3 y=-2 x+9 \\
b=4 & y=\frac{2}{3} x-3 \\
y=\frac{-3}{2} x & m_{1}=2 / 3
\end{array}
$$



## Algebra II Class Worksheet \#3 Unit 2

Write the equation of each line described. If the line is oblique, use slope-intercept form. Graph both equations.
4. The line through $(0,4)$ perpendicular to $2 x-3 y=9$
oblique line

$$
\begin{array}{cc}
y=m x+b & 2 x-3 y=9 \\
m_{2}=-3 / 2 & -3 y=-2 x+9 \\
b=4 & y=\frac{2}{3} x-3 \\
y=\frac{-3}{2} x+4 & m_{1}=2 / 3
\end{array}
$$



## Algebra II Class Worksheet \#3 Unit 2

Write the equation of each line described. If the line is oblique, use slope-intercept form. Graph both equations.
4. The line through $(0,4)$ perpendicular to $2 x-3 y=9$
oblique line

$$
y=\frac{-3}{2} x+4
$$

$$
\mathbf{y}=\mathbf{m x}+\mathbf{b}
$$

$$
m_{2}=-3 / 2
$$

$$
b=4
$$

$$
y=\frac{-3}{2} x+4
$$

$$
\begin{gathered}
2 x-3 y=9 \\
-3 y=-2 x+9 \\
y=\frac{2}{3} x-3 \\
m_{1}=2 / 3
\end{gathered}
$$



## Algebra II Class Worksheet \#3 Unit 2

Write the equation of each line described. If the line is oblique, use slope-intercept form. Graph both equations.
4. The line through $(0,4)$ perpendicular to $2 x-3 y=9$
oblique line

$$
\begin{gathered}
2 x-3 y=9 \\
-3 y=-2 x+9 \\
y=\frac{2}{3} x-3 \\
m_{1}=2 / 3
\end{gathered}
$$



## Algebra II Class Worksheet \#3 Unit 2

Write the equation of each line described. If the line is oblique, use slope-intercept form. Graph both equations.
4. The line through $(0,4)$ perpendicular to $2 x-3 y=9$
oblique line

$$
y=\frac{-3}{2} x+4
$$

$$
\mathbf{y}=\mathbf{m x}+\mathbf{b}
$$

$$
2 x-3 y=9
$$

$$
m_{2}=-3 / 2
$$

$$
-3 y=-2 x+9
$$

$$
b=4
$$

$$
y=\frac{2}{3} x-3
$$

$$
y=\frac{-3}{2} x+4
$$

$$
m_{1}=2 / 3
$$



## Algebra II Class Worksheet \#3 Unit 2

Write the equation of each line described. If the line is oblique, use slope-intercept form. Graph both equations.
5. The line through ( $5,-2$ ) perpendicular to $5 x+2 y=-8$


## Algebra II Class Worksheet \#3 Unit 2

Write the equation of each line described. If the line is oblique, use slope-intercept form. Graph both equations.
5. The line through ( $5,-2$ ) perpendicular to $5 x+2 y=-8$


## Algebra II Class Worksheet \#3 Unit 2

Write the equation of each line described. If the line is oblique, use slope-intercept form. Graph both equations.
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Write the equation of each line described. If the line is oblique, use slope-intercept form. Graph both equations.
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$$
\begin{aligned}
& 5 x+2 y=-8 \\
& 2 y=
\end{aligned}
$$



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\begin{aligned}
& 5 x+2 y=-8 \\
& 2 y=-5 x
\end{aligned}
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b=? & y=-\frac{5}{2} x-4 \\
y-y_{1}=m\left(x-x_{1}\right) & m_{1}=-5 / 2
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$y--2=\frac{2}{5}(x-5)$
$y+2=$


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$$
\begin{aligned}
& 5 \\
& \hline
\end{aligned}
$$

$$
\mathbf{y}=\mathbf{m x}+\mathbf{b}
$$

$$
5 x+2 y=-8
$$

$$
m_{2}=2 / 5
$$

$$
2 y=-5 x-8
$$

$$
b=?
$$

$$
y=\frac{-5}{2} x-4
$$

$$
\mathbf{y}-\mathbf{y}_{1}=\mathbf{m}\left(\mathbf{x}-\mathbf{x}_{1}\right)
$$

$$
m_{1}=-5 / 2
$$

$$
y--2=\frac{2}{5}(x-5)
$$

$$
y+2=\frac{2}{5} x-2
$$

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5. The line through ( $5,-2$ ) perpendicular to $5 x+2 y=-8$ oblique line

$$
\begin{aligned}
& 3 \\
& \hline
\end{aligned}
$$

$$
\mathbf{y}=\mathbf{m} \mathbf{x}+\mathbf{b}
$$

$$
5 x+2 y=-8
$$

$$
m_{2}=2 / 5
$$

$$
2 y=-5 x-8
$$

$$
b=\text { ? }
$$

$$
y=\frac{-5}{2} x-4
$$

$$
\mathbf{y}-\mathbf{y}_{1}=\mathbf{m}\left(\mathbf{x}-\mathbf{x}_{1}\right)
$$

$$
m_{1}=-5 / 2
$$

$$
y--2=\frac{2}{5}(x-5)
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$$

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oblique line

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\begin{gathered}
\mathbf{y}=\mathbf{m x}+b \\
\mathbf{m}_{2}=2 / 5 \\
b=?
\end{gathered}
$$

$$
\mathbf{y}-\mathbf{y}_{1}=\mathbf{m}\left(x-x_{1}\right)
$$

$$
y--2=\frac{2}{5}(x-5)
$$

$$
y+2=\frac{2}{5} x-2
$$

$$
y=\frac{2}{5} x-4
$$

$$
5 x+2 y=-8
$$

$$
2 y=-5 x-8
$$

$$
y=\frac{-5}{2} x-4
$$

$$
m_{1}=-5 / 2
$$



## Algebra II Class Worksheet \#3 Unit 2

Write the equation of each line described. If the line is oblique, use slope-intercept form. Graph both equations.
6. The line through ( $1,-3$ ) perpendicular to $3 x-y=2$


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Write the equation of each line described. If the line is oblique, use slope-intercept form. Graph both equations.
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$$
3 x-y=2
$$



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6. The line through ( $1,-3$ ) perpendicular to $3 x-y=2$ oblique line

$$
\begin{aligned}
& 3 x-y=2 \\
& -y=
\end{aligned}
$$



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\begin{aligned}
& 3 x-y=2 \\
& -y=-3 x
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\begin{gathered}
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\begin{array}{lc}
\mathbf{y}=\mathbf{m x}+\mathbf{b} & \mathbf{y x}-\mathbf{y}-2 \\
\mathbf{m}_{2}= & -\mathbf{y}=-\mathbf{3 x}+2 \\
& \mathbf{y}=3 \mathbf{x}-\mathbf{2} \\
& \mathbf{m}_{1}=\mathbf{3}
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$\mathbf{y}-\mathbf{y}_{1}=\mathbf{m}\left(\mathbf{x}-\mathbf{x}_{1}\right)$

$$
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$$



## Algebra II Class Worksheet \#3 Unit 2

Write the equation of each line described. If the line is oblique, use slope-intercept form. Graph both equations.
6. The line through $(1,-3)$ perpendicular to $3 x-y=2$ oblique line

$$
\mathbf{y}=\mathbf{m} \mathbf{x}+\mathbf{b}
$$

$$
3 x-y=2
$$

$$
m_{2}=-1 / 3
$$

$$
-y=-3 x+2
$$

$$
b=?
$$

$$
y=3 x-2
$$

$$
\begin{gathered}
y-y_{1}=m\left(x-x_{1}\right) \\
y--3=\frac{-1}{3}(x-1) \\
y+3=\frac{-1}{3} x+\frac{1}{3} \\
y=
\end{gathered}
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\mathrm{m}_{1}=3
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## Good luck on your homework !!

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$$
\begin{aligned}
y-y_{1} & =m\left(x-x_{1}\right) \quad m_{1}=3 \\
y--3 & =\frac{-1}{3}(x-1) \\
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\end{aligned}
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