General Algebra II Worksheet \#5 Unit 2 Selected Solutions
Find the equation of the line being described in each problem. If the line is oblique, then write its slope-intercept form. Graph both equations.

1. The line through $(0,-3)$ that is parallel to $2 x+3 y=6$

$$
y=(-2 / 3) x-3
$$


3. The line through $(-2,1)$ that is parallel to $x=3$

| new line |  | given line$\mathbf{x}=\mathbf{3}$ |
| :---: | :---: | :---: |
| vertical line |  |  |
| $\mathbf{x}=\mathbf{k}$ |  |  |
| $(-2,1)$ | parallel lines |  |
| , |  | slope $=-2 / 3$ |
| $\mathrm{x}=-2$ |  |  |


12. The line through $(4,3)$ that is perpendicular to $x-2 y=8 \quad \underset{y}{y}=-2 x+11$


