Algebra II Worksheet #3 Unit 2 page 1 _____

Find the equation of each line described below. If the line is oblique, write the slope-intercept equation. Graph both equations (the given equation as well as your solution).

1. **Through (-2 , 3) parallel to -3x + 2y = 4** _____

2. **Through (0 , -2) parallel to 2x + 7y = 21** _____

3. **Through (3 , -5) parallel to 4x – 3y = 6** _____

4. **Through (6 , -1) parallel to x + 2y = -4** _____

5. **Through (-2 , 1) parallel to x = 4** _____

6. **Through (-3 , -5) parallel to y = -1** _____

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Find the equation of each line described below. If the line is oblique, write the slope-intercept equation. Graph both equations (the given equation as well as your solution).

7. Through (0, -2) perpendicular to 3x + 4y = 12 _____

8. Through (-4 , -5) perpendicular to -4x + 5y = 10 _____

9. Through (1 , 3) perpendicular to x = -2 _____

10. Through (3 , -2) perpendicular to 2x – 5y = 10 _____

11. Through (4 , 3) perpendicular to x – y = 0 _____

12. Through (-2 , 5) perpendicular to y = 2 _____