## **Writing Equations of Lines**

Use either the slope intercept (y=mx+b) or point slope  $(y-y_1=m(x-x_1))$  formula for each line.

- 1. Slope = 5; y-intercept = -2
- 2. Slope =  $\frac{1}{4}$ ; y-intercept = 6
- 3. Slope =2; point on line (8, -3)
- 4. Slope = -2/3; point on line (6.-4)
- 5. Two points on the line (-4, 6)(2, 1)
- 6. Two points on the line (8, 5)(3, -4)
- 7. x-intercept (4,0); y-intercept (0,-5)
- 8. Parallel to y=6x-11; contains point (-5, 2)
- 9. Parallel to y = 2/5x + 6; contains point (8, 11)
- 10. Perpendicular to y = 2x 7; contains point (-3, 1)
- 11. Perpendicular to y = -4/3x 8; contains point (-2, 7)
- 12. Horizontal line through point (-9, 12)
- 13. Horizontal line through (4, -5)
- 14. Vertical line through (6, 10)
- 15. Vertical line through (-7, 11)