

Slope Intercept Equation $y = mx + b$

$$\text{Slope } m = \frac{y_2 - y_1}{x_2 - x_1}$$

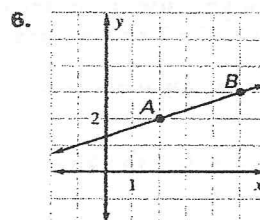
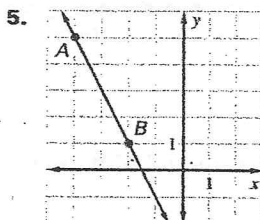
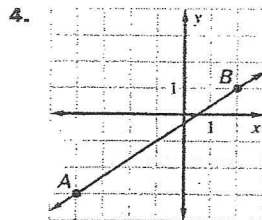
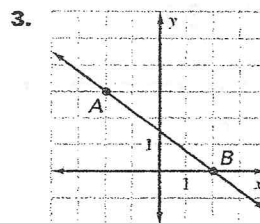
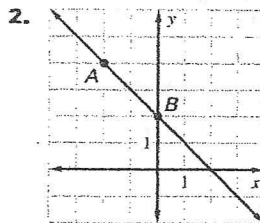
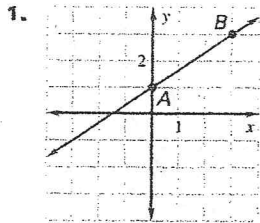
Point Slope Equation $y - y_1 = m(x - x_1)$

Name _____

Date _____

LESSON 3.5 Practice
For use with pages 180-187

Write an equation of line AB in slope-intercept form.



Write an equation of the line that passes through point P and is parallel to the line with the given equation.

7. $P(-2, 0); y = -\frac{1}{2}x + 6$

8. $P(3, 9); y = 4x - 8$

9. $P(-5, -4); y = -2x - 10$

PERPENDICULAR AND PARALLEL (OPPOSITE INVERSE) (SAME SLOPE)

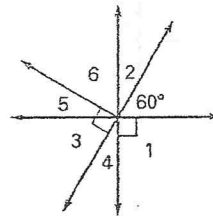
Name _____

Date _____

LESSON 3.6 **Practice** *continued*
For use with pages 190-197

Find the measure of the indicated angle.

- | | |
|---------------|---------------|
| 0. $\angle 1$ | 1. $\angle 2$ |
| 2. $\angle 3$ | 3. $\angle 4$ |
| 4. $\angle 5$ | 5. $\angle 6$ |



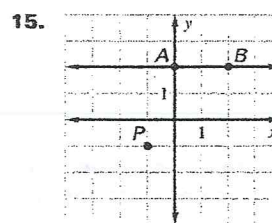
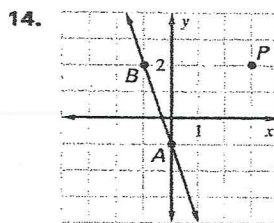
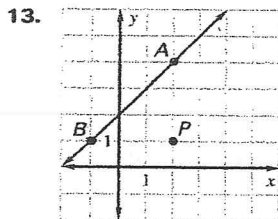
Write an equation of the line that passes through point P and is perpendicular to the line with the given equation.

6. $P(5, 20)$; $y = \frac{1}{2}x + 8$

Tell whether the lines through the given points are *parallel*, *perpendicular*, or *neither*.

- | | | |
|---|---|--|
| 10. Line 1: $(-1, 2), (2, 3)$
Line 2: $(0, 0), (3, 1)$ | 11. Line 1: $(0, 1), (1, 3)$
Line 2: $(4, -1), (5, 2)$ | 12. Line 1: $(-5, 0), (-3, -2)$
Line 2: $(-2, 2), (0, 4)$ |
|---|---|--|

Write an equation of the line that passes through point P and is parallel to line AB .



Write an equation of the line that passes through point P and is perpendicular to line AB .

