

Name: _____

Date: _____

Equation of a line through two points

Find the slope first, then the y-intercept.

1. A line passes through (3, 18) and (4, 22). Write its equation in the form $y = mx + b$.

Answer: _____

2. A line passes through (3, 9) and (6, 15). Write its equation in the form $y = mx + b$.

Answer: _____

3. A line passes through (1, -3) and (4, 0). Write its equation in the form $y = mx + b$.

Answer: _____

4. A line passes through (1, -4) and (4, -7). Write its equation in the form $y = mx + b$.

Answer: _____

5. A line passes through (1, -2) and (4, 7). Write its equation in the form $y = mx + b$.

Answer: _____

6. A line passes through (4, 6) and (5, 8). Write its equation in the form $y = mx + b$.

Answer: _____

7. A line passes through (2, 1) and (4, 7). Write its equation in the form $y = mx + b$.

Answer: _____

8. A line passes through (4, 16) and (7, 25). Write its equation in the form $y = mx + b$.

Answer: _____

9. A line passes through (4, -12) and (5, -14). Write its equation in the form $y = mx + b$.

Answer: _____

10. A line passes through (3, -8) and (5, -16). Write its equation in the form $y = mx + b$.

Answer: _____

Slope and Linear Equations: Answer Key

1. $y = 4x + 6$

2. $y = 2x + 3$

3. $y = x - 4$

4. $y = -x - 3$

5. $y = 3x - 5$

6. $y = 2x - 2$

7. $y = 3x - 5$

8. $y = 3x + 4$

9. $y = -2x - 4$

10. $y = -4x + 4$