

Writing Equations of Lines Practice Worksheet B

Name _____ Class Period _____

Find the slope and the y-intercept, and then write the equation of the line.

| Find slope. $m = \frac{y_2 - y_1}{x_2 - x_1}$ | Find the y-intercept: Solve for b $y = mx + b$ | Write the equation $y = mx + b$ |
|---------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------|
| 1. (1, 5) and (2, 7) m = | | $y = mx + b$ |
| 2. (0, 1) and (3, -8) m = | | $y = mx + b$ |
| 3. (2, -3) and (4, -2) m = | | $y = mx + b$ |
| 4. (2, 5) and (4, 2) m = | | $y = mx + b$ |
| 5. (-3, -5) and (-1, 3) m = | | $y = mx + b$ |

| Find slope. $m = \frac{y_2 - y_1}{x_2 - x_1}$ | Find the y-intercept: Solve for b $y = mx + b$ | Write the equation $y = mx + b$ |
|---------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------|
| 6. (3, -1) and (-6, -4) $m =$ | | $y = mx + b$ |
| 7. (4, 1) and (-4, 7) $m =$ | | $y = mx + b$ |
| 8. (-1, 2) and (3, 4) $m =$ | | $y = mx + b$ |
| 9. (-1, -4) and (2, 0) $m =$ | | $y = mx + b$ |
| 10. (3, -1) and (-3, 5) $m =$ | | $y = mx + b$ |