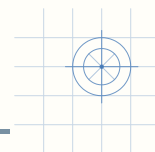


Write the equation of a line — Perpendicular to a given line



Name: _____

Date: _____

Write the equation of each line perpendicular to the one given.

1 $(-1, 2), x + 4y = 8$
 $4y = -x + 8$
 $y = -\frac{1}{4}x + 2$
 $m = -1 \div (-\frac{1}{4}) = 4$
 $b = 2 - (4)(-1) = 6$
 $y = 4x + 6$

2 $(-2, -4), x - y = -2$

3 $(-3, 4), x - 2y = -2$

4 $(2, 5), x + y = -1$

5 $(3, 6), x + 4y = -4$

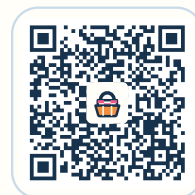
6 $(2, 10), x + y = 1$

7 $(-2, -16), x + 4y = 4$

8 $(-3, 0), x + y = 1$

9 $(3, -2), x - y = -2$

10 $(3, 16), x + 4y = 8$



Write the equation of a line · Perpendicular to a given line — Answer key



1. $(-1, 2)$, $x + 4y = 8 \rightarrow y = 4x + 6$

2. $(-2, -4)$, $x - y = -2 \rightarrow y = -x - 6$

3. $(-3, 4)$, $x - 2y = -2 \rightarrow y = -2x - 2$

4. $(2, 5)$, $x + y = -1 \rightarrow y = x + 3$

5. $(3, 6)$, $x + 4y = -4 \rightarrow y = 4x - 6$

6. $(2, 10)$, $x + y = 1 \rightarrow y = x + 8$

7. $(-2, -16)$, $x + 4y = 4 \rightarrow y = 4x - 8$

8. $(-3, 0)$, $x + y = 1 \rightarrow y = x + 3$

9. $(3, -2)$, $x - y = -2 \rightarrow y = -x + 1$

10. $(3, 16)$, $x + 4y = 8 \rightarrow y = 4x + 4$