

Parallel Line Through a Point

Write the equation of the line through the given point that is parallel to the given line. Use $y = mx + b$ when possible, and $x = c$ for a vertical answer.

1. Through (3, 0), write the parallel line.

Given line: $y = \frac{1}{2}x - 2$

Point: (3, 0)

Equation: _____

2. Through (6, 6), write the parallel line.

Given line: $y = \frac{8}{7}x + 3$

Point: (6, 6)

Equation: _____

3. Through (-1, -4), write the parallel line.

Given line: $y = -\frac{7}{10}x + 6$

Point: (-1, -4)

Equation: _____

4. Through (5, -3), write the parallel line.

Given line: $y = -\frac{1}{5}x - 11$

Point: (5, -3)

Equation: _____

5. Through (5, -3), write the parallel line.

Given line: $x + 3y = -15$

Point: (5, -3)

Equation: _____

6. Through (2, 0), write the parallel line.

Given line: $12x - y = -6$

Point: (2, 0)

Equation: _____

7. Through (-3, -6), write the parallel line.

Given line: $y = -12$

Point: (-3, -6)

Equation: _____

8. Through (4, 5), write the parallel line.

Given line: $x = -11$

Point: (4, 5)

Equation: _____