

**[12-01-20-T]**

*Line*

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Find the equation, in point-slope form, of the line through the points P, Q if

[1]  $P(2, 3)$  and  $Q(5, 7)$ .

[2]  $P(-2, -3)$  and  $Q(-5, -7)$ .

[3]  $P(-2, 3)$  and  $Q(-5, 7)$ .

[4]  $P(2, -3)$  and  $Q(5, -7)$ .

[5]  $P(-2, -3)$  and  $Q(5, 7)$ .

[6]  $P(-2, 3)$  and  $Q(5, -7)$ .

## Answers

Find the equation of the line through the points P, Q if

$$[1] \quad y - 3 = \frac{4}{3}(x - 2)$$

$$[2] \quad y + 3 = \frac{4}{3}(x + 2)$$

$$[3] \quad y - 3 = \frac{-4}{3}(x + 2)$$

$$[4] \quad y + 3 = \frac{-4}{3}(x - 2)$$

$$[5] \quad y + 3 = \frac{10}{7}(x + 2)$$

$$[6] \quad y + 3 = \frac{-4}{3}(x - 2)$$