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Geometry  
Slope of Parallel and Perpendicular Lines

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Are the lines parallel? Explain.

(1)  $y = 2x + 1$   
 $y = 2x$

(2)  $y = \frac{4}{3}x + 1$   
 $y = \frac{4}{3}x - 5$

(3)  $y = 2x + 1$   
 $y + 2x = 1$

Write an equation for a line that contains point P and is parallel to the given line.

(4)  $y = 3x + 1$ ;  $P(1, 2)$

(5)  $-x + 3y = 6$ ;  $P(-3, 2)$

(6)  $y = -\frac{1}{2}x$ ;  $P(4, 0)$

(7)  $2x + 3y = 0$ ;  $P(7, -6)$