

Parallel and Perpendicular Lines

Sheet 1

- 1) Write the equation of the line parallel to the line $y = 2x + 7$ and having the y-intercept 4.

- 2) Write the equation of the line l having the y-intercept 6 and perpendicular to the line m which has the equation $y = 3x - 2$.

- 3) Find the equation of the line n which is parallel to the line v whose slope is $-\frac{1}{2}$ and has the y-intercept $-\frac{1}{2}$.

- 4) Find the equation of the line p which is perpendicular to the line q having the equation $y = 2x + 9$ and having the y-intercept -3 .

- 5) Write the equation of the line having the y-intercept 7 and parallel to $y = \frac{2}{5}x - 10$.

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Parallel and Perpendicular Lines

- 1) Write the equation of the line parallel to the line $y = 2x + 7$ and having the y-intercept 4.

$$y = 2x + 4$$

- 2) Write the equation of the line l having the y-intercept 6 and perpendicular to the line m which has the equation $y = 9x - 3$.

$$y = -\frac{1}{9}x + 6$$

- 3) Find the equation of the line n which is parallel to the line v whose slope is $-\frac{1}{2}$ and has the y-intercept -3 .

$$y = -\frac{1}{2}x - 3$$

- 4) Find the equation of the line p which is perpendicular to the line q having the equation $y = -x + 5$ and having the y-intercept -3 .

$$y = -x - 3$$

- 5) Write the equation of the line having the y-intercept 7 and parallel to $y = \frac{2}{5}x - 10$.

$$y = \frac{2}{5}x + 7$$

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