

Parallel and Perpendicular Lines

- 1) Write the equation of the line having the y-intercept -8 and line parallel to $y = -3x + 2$.

- 2) Find the equation of the line u having the y-intercept 7 and parallel to the line v which has a slope of 2 .

- 3) Find the equation of the line w having the y-intercept 3 and perpendicular to the line $x + 2y = 8$ and having the x-intercept 4 .

- 4) Write the equation of the line n whose slope is 3 and perpendicular to the line $2x - 3y = 6$.

- 5) Write the equation of the line parallel to $y = 4x - 3$ and having y-intercept -7 .

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- 1) Write the equation of the line having the y-intercept -8 and line parallel to $y = -3x + 2$.

$$y = -3x - 8$$

- 2) Find the equation of the line u having the y-intercept 7 and parallel to the line v which has a slope of -4 .

$$y = -4x + 7$$

- 3) Find the equation of the line w having the y-intercept 3 and perpendicular to the line $x + 5y = 8$ and having the slope of $-\frac{1}{5}$.

$$y = -\frac{1}{5}x + 3$$

- 4) Write the equation of the line n whose slope is $\frac{3}{4}$ and perpendicular to the line $3x + 4y = 12$.

$$y = \frac{3}{4}x - 3$$

- 5) Write the equation of the line parallel to $y = 4x - 3$ and having y-intercept -7 .

$$y = 4x - 7$$

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