Show all work in the space provided.

Identify which lines are parallel. Explain why.

A $y = \frac{4}{3}x + 3$

B 2y = x - 4

C 3y = 4x - 5

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

Write the slope of an equation that is perpendicular to y = -5x - 3.

Compare the graphs of the equations in Column A and Column B.

Column A $2y = 3x + 8 \qquad 3x - 2y = 12$

Column B

A The graphs are parallel.

B The graphs are perpendicular.

C The graphs are neither.

D The relationship cannot be determined from the information given.

Compare the graphs of the equations in Column A and Column B.

Column A y = 3x - 4

Column B 3x + 9y = 27 Write the slope of an equation that is parallel to y = 7x + 4.

Identify which lines are perpendicular. Explain why.

B y = 4x - 7

 $\mathbf{C} \quad y = -4x$

D $y = \frac{1}{4}x + 2$

A The graphs are parallel.

B The graphs are perpendicular.

C The graphs are neither.

D The relationship cannot be determined from the information given.

Write the slope of an equation that

is perpendicular to $y = \frac{3}{2}x + 9$.

Identify which lines are parallel, Explain why.

A $y = \frac{4}{3}x + 3$ **B** y = -4 **C** $y = -\frac{3}{4}x$

Compare the graphs of the equations in Column A and Column B.

Column A

Column B

A The graphs are parallel.

B The graphs are perpendicular.

C The graphs are neither.

D The relationship cannot be determined from the information given.

Show all work in the space provided.

Identify which lines are parallel. Explain why.

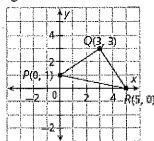
$$y = \frac{4}{3}x + 3$$

$$y = 2$$

$$y = \frac{4}{3}x - 5$$

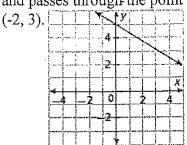
$$y = -3$$

Show that PQR is a right triangle



Write the equation in slopeintercept form that passes through the point (4, 5) and is perpendicular to y = -4x - 3.

Write the equation in slopeintercept form that passes through (3, 2) and is parallel to y = 3x - 1 Write an equation that is parallel to the given graph and passes through the point



Identify which lines are perpendicular. Explain why.

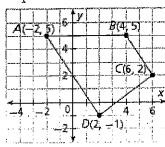
$$x = -2$$

$$y = 1$$

$$y = -4x$$

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

Show that ABCD is a trapezoid.



Write the equation in slopeintercept form that passes through the point (8, 5) and is perpendicular to x + y = 2 Write an equation in point – slope form that passes though the point (4, 5) and is parallel to 2x + 3y = 7