

Name: _____
Date: _____
Class: _____

Algebra
Review

Finding equations of lines.

1) Find the equation of a line that passes through (2, 5) and (-5, 17)

a) $y = -\frac{7}{12}x + \frac{37}{6}$

b) $y = \frac{7}{12}x + \frac{23}{6}$

b) $y = -\frac{12}{7}x + \frac{59}{7}$

d) $y = \frac{12}{7}x + \frac{11}{7}$

2) Find the equation of a line that is perpendicular to the line $4x - 3y = 17$ and passes through (-12, 14)

3) Find the equation of a line that is parallel to a line passing through (-4, 7) and (-1, 12). The new line must pass through (6, -14)

a) $y = \frac{4}{3}x - \frac{17}{3}$

b) $y = \frac{4}{3}x - 22$

c) $y = -\frac{4}{3}x - 6$

d) $y = \frac{4}{3}x + \frac{74}{3}$

4) Find the equation of a line that is perpendicular to $7x + 8y = 27$. The new line passes through (-14, 27)

5) Find the equation of a line that is perpendicular to a segment with points A(-4, 6) and B(-10, 14). The new line passes through point B.

6) Find the equation of a line that is perpendicular to a line which passes through (-9, 7) and (-4, 14). The new line must pass through (8, 8).

7) Which of the following points would be located on a line that is perpendicular to $7x + 2y = 19$. The new line must pass through (6, 4).

- a) (7, -15) b) $(2, -\frac{2}{3})$ c) (-1, 2) d) (4, 6)