

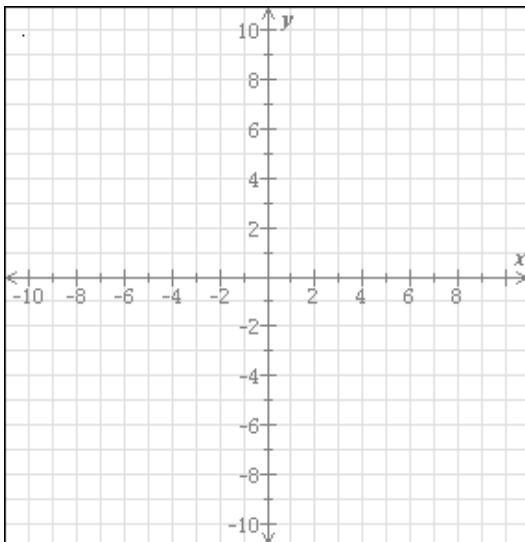
ALEKS® 101 Mock Final #5

Beginning and Intermediate Algebra Combined / MATH 101 - Fall 2014 – 504 (Prof. Miller)

Student Name/ID:

1. Graph the line.

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



2. Consider the line $8x + 3y = -4$

What is the slope of a line parallel to this line?

What is the slope of a line perpendicular to this line?

3. In a survey, 150 people were asked if they smoke and whether or not they exercise regularly (more than twice a week). The results are summarized in the table below.

	Smoke	Do not smoke
Exercise regularly	8	22
Do not exercise regularly	25	95

- (a) What percentage of the people do *not* exercise regularly?
- (b) What percentage of the people do *not* smoke?

4. Use the distributive property to remove the parentheses.

$$-8(-2v + 4w - 3)$$

5. Solve the following system of equations.

$$-7x - 6y = -2$$

$$-9x - 4y = 16$$

6. Solve the following proportion for x

$$\frac{x}{12} = \frac{5}{17}$$

Round your answer to the nearest tenth.