

Practice for Exam 2

Date \_\_\_\_\_ Period \_\_\_\_\_

Write the slope-intercept form of the equation of the line through the given points.

1) through:  $(-3, 4)$  and  $(0, -1)$

2) through:  $(3, 1)$  and  $(1, -2)$

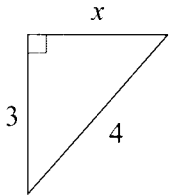
Write the slope-intercept form of the equation of the line described.

3) through:  $(-4, -1)$ , parallel to  $y = \frac{1}{2}x$

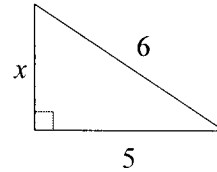
4) through:  $(3, -4)$ , perp. to  $y = \frac{3}{7}x$

Find the missing side of each triangle. Leave your answers in simplest radical form.

5)

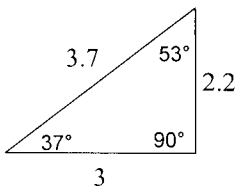


6)

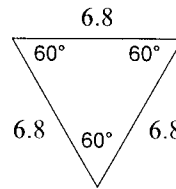


Classify each triangle by its angles and sides.

7)

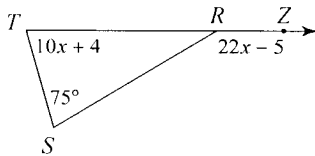


8)

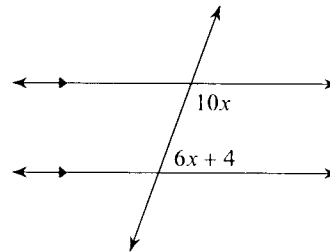


Solve for x.

9)



10)



Sketch the graph of each line.

11)  $y = -\frac{1}{2}x - 2$

12)  $2x - y = -1$

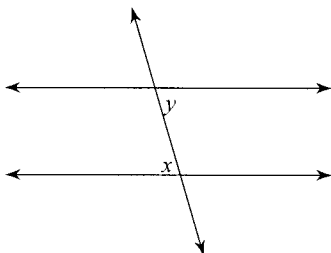
Find the distance between each pair of points.

13)  $(-7, -8)$ ,  $(8, -5)$

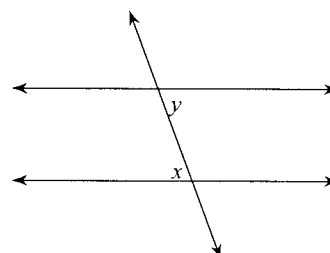
14)  $(6, 5)$ ,  $(3, -4)$

Identify each pair of angles as corresponding, alternate interior, alternate exterior, or consecutive interior.

15)



16)



# Answers to Practice for Exam 2 (ID: 1)

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

2)  $y = \frac{3}{2}x - \frac{7}{2}$

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

4)  $y = -\frac{7}{3}x + 3$

5)  $\sqrt{7}$

6)  $\sqrt{11}$

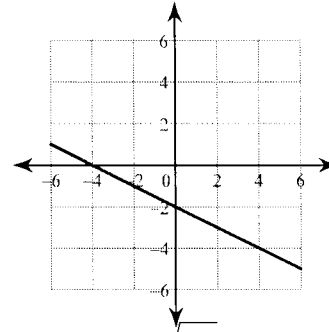
7) right scalene

8) equilateral

9) 7

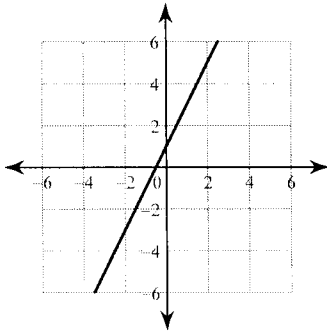
10) 11

11)



14)  $3\sqrt{10}$

12)



13)  $3\sqrt{26}$

15) alternate interior

16) alternate interior