Name(s)_____

Find the slope of the line that passes through the points.

    1)   (4, 6) and (9, 8)

    2)   (-2, -5) and (2, -4)

Find the slope of the line.
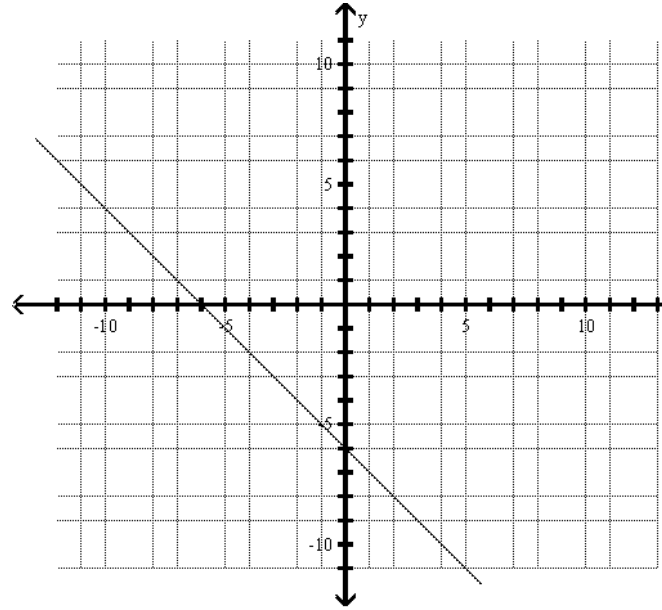
    3) $x + y = -5$

    4) $y = 7x + 8$

    5) $y = 6x$

    6) $x = -5$

Determine whether the lines are parallel, perpendicular, or neither.

    7) $3x - 4y = -18$
           $8x + 6y = -1$

    8) $12x + 4y = 16$
           $9x + 3y = 15$

    9) $3x - 2y = -16$
           $3x + 4y = 5$

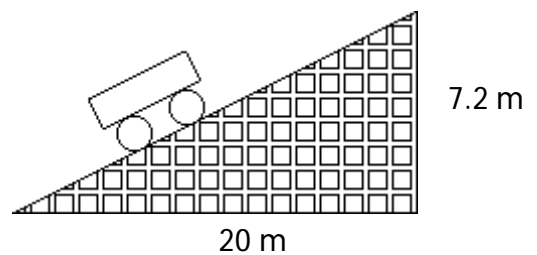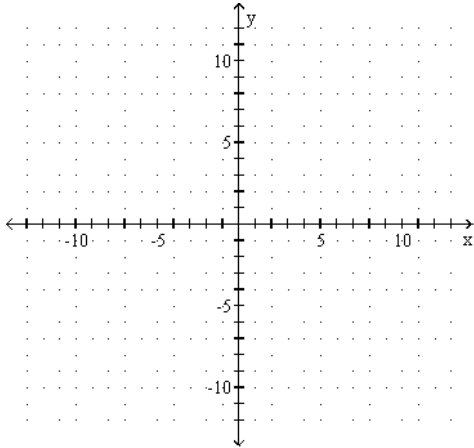Use two points on the graph to find the slope of the line.

10) _____

Solve.

11)   A section of roller coaster track has the dimensions shown in the diagram. Find the grade of the track, which is the slope written as a percent.
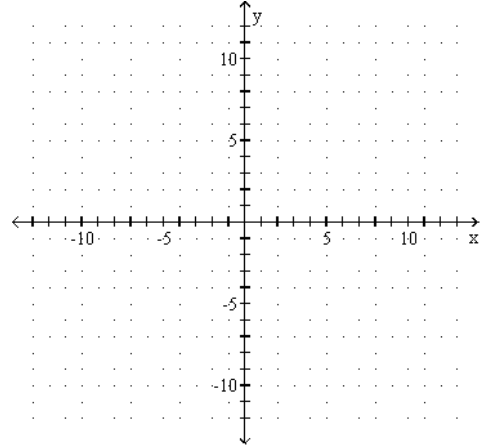

7.2 m
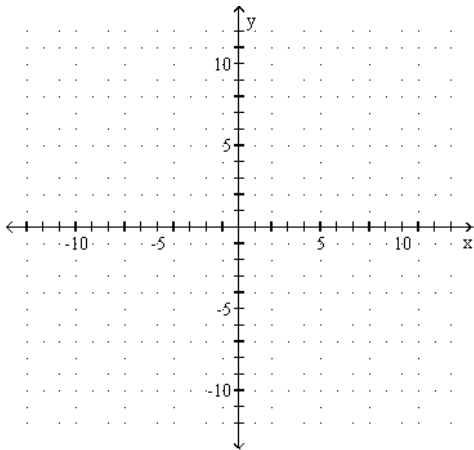
20 m

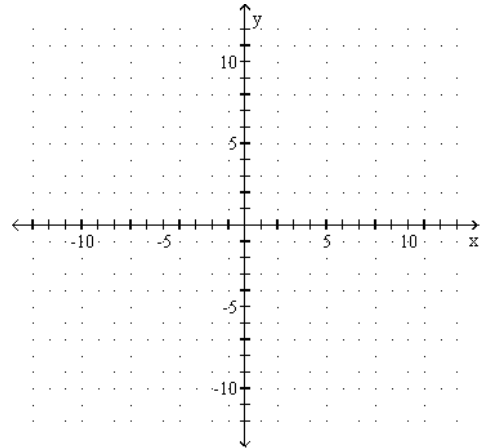Graph the equation by solving for y then using y=mx+b.

12) $y = \frac{1}{3}x + 4$

14) $4y + 20x = 32$

13) $y = -\frac{1}{4}x + 3$

15) $-2x + y = 0$

2

1) $\dfrac{2}{5}$

2) $\dfrac{1}{4}$

3) m = -1
4) m = 7
5) m = 6
6) undefined slope
7) perpendicular
8) parallel
9) neither
10) -1
11) 36%
12)

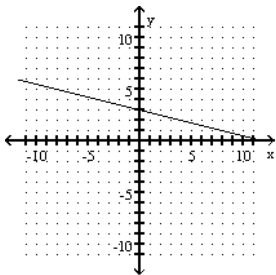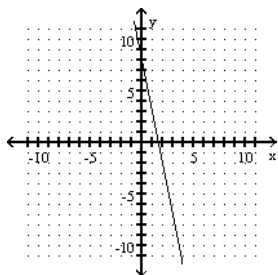

13)

14)

15)