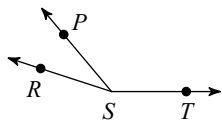
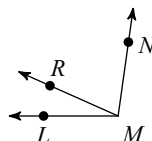


Geometry - PRACTICE Exam 2 Fall 2019

- 1) $m\angle PST = x + 130$, $m\angle RST = 2x + 162$,
and $m\angle RSP = 32^\circ$. Find x .

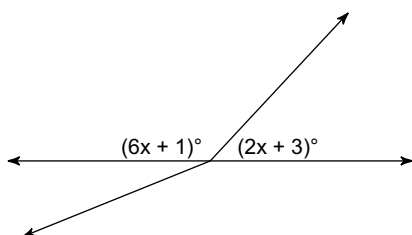


- 2) $m\angle LMN = 13x - 6$, $m\angle LMR = 24^\circ$,
and $m\angle RMN = 9x + 2$. Find $m\angle RMN$.



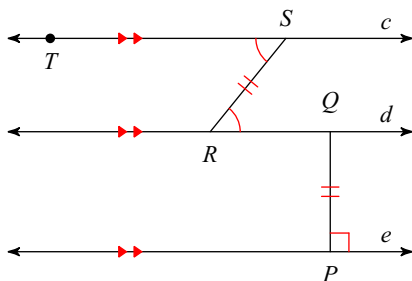
Find the value of x .

- 3)



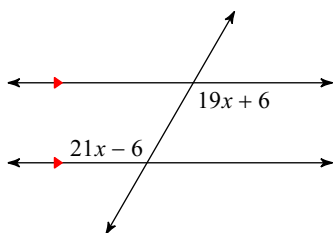
List all information given by the marks on the diagram.

- 4)



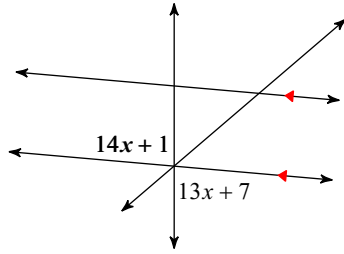
Solve for x .

- 5)



Find the measure of the angle indicated in bold.

6)



Find the midpoint of the line segment with the given endpoints.

7) $(3, -5), (-3, -7)$

8) $\left(3\frac{5}{6}, \frac{3}{11}\right), \left(5\frac{5}{12}, -3\frac{1}{10}\right)$

Find the distance between each pair of points.

9) $(0, 6), (8, -6)$

10) $\left(\frac{12}{7}, -1\frac{1}{8}\right), (-2, -3)$

Find the slope of a line perpendicular to each given line.

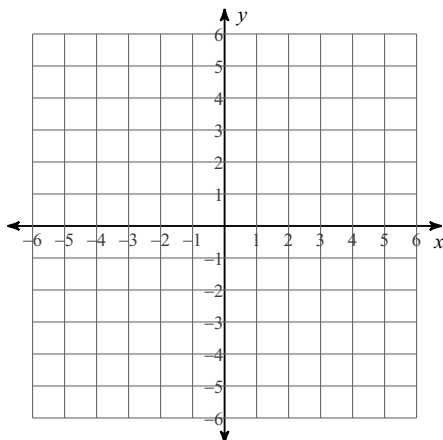
11) $-y = 2x + 1$

Find the slope of a line parallel to each given line.

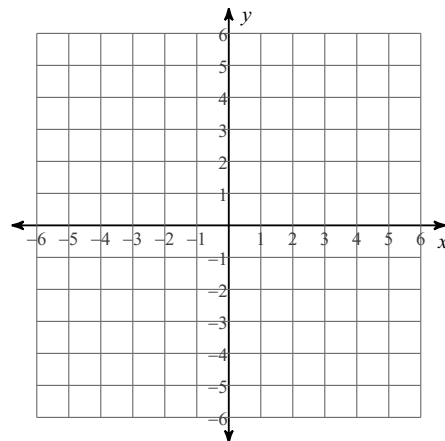
12) $0 = -2x + y - 2$

Sketch the graph of each line.

13) $y = \frac{8}{5}x + 3$

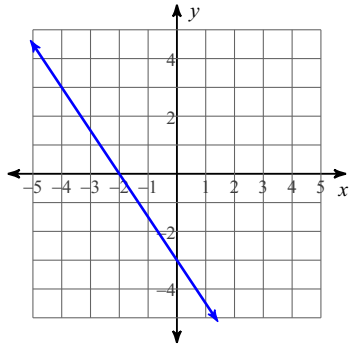


14) $5x + 4y = -16$



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

15)



Write the slope-intercept form of the equation of each line given the slope and y-intercept.

16) Slope = $-\frac{2}{5}$, y-intercept = -1

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

17) through: $(-4, 1)$, slope = $-\frac{1}{4}$

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

18) through: $(-4, 1)$ and $(-3, 5)$

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

19) through: $(-3, -3)$, parallel to $y = x - 4$

20) through: $(-2, 1)$, perp. to $y = -x + 5$

Answers to Geometry - PRACTICE Exam 2 Fall 2019

1) 0

2) 74°

3) 22

4) $e \parallel c \parallel d$
 $e \perp \overline{PQ}$
 $\overline{PQ} \cong \overline{RS}$

5) 6

6) 85°

7) $(0, -6)$

$\angle TSR \cong \angle QRS$
 8) $\left(4\frac{5}{8}, -1\frac{91}{220}\right)$

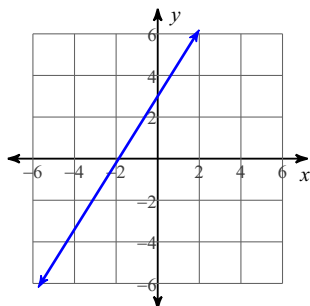
9) $4\sqrt{13}$

10) $4\frac{9}{56}$

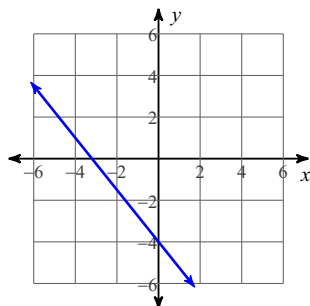
11) $\frac{1}{2}$

12) 2

13)



14)



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

16) $y = -\frac{2}{5}x - 1$

17) $y = -\frac{1}{4}x$

18) $y = 4x + 17$

19) $y = x$

20) $y = x + 3$