SRHS Math 1 - #Review 10A

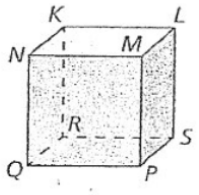
1. Looking at the diagram, are the following parallel, perpendicular or skew? (Note: All angles are right angles)

a) $\overleftrightarrow{NM}$ and $\overleftrightarrow{RS}$

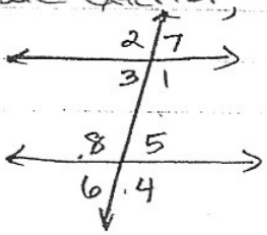
b) $\overleftrightarrow{NM}$ and $\overleftrightarrow{LS}$

c) $\overleftrightarrow{NM}$ and $\overleftrightarrow{QN}$

d) plane NMP and plane RKL



2. Identify whether corresponding, alternate interior, alternate exterior, consecutive interior or vertical angles.



a) $\angle 4$ and $\angle 2$

b) $\angle 4$ and $\angle 1$

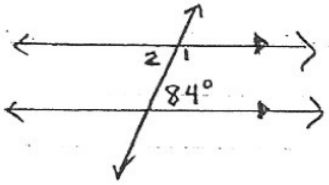
c) $\angle 8$ and $\angle 1$

d) $\angle 8$ and $\angle 4$

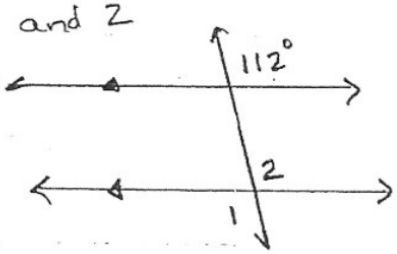
e) $\angle 8$ and $\angle 3$

Find the measures of angles 1 and 2

3.

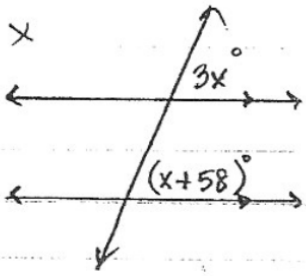


4.

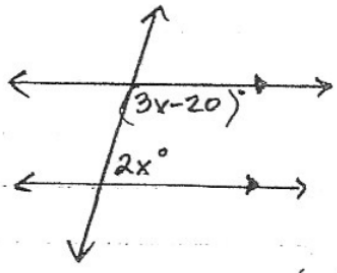


Find x

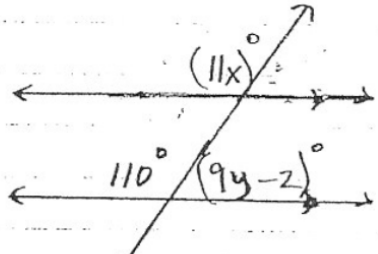
5.



6.

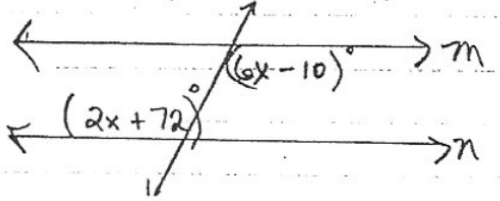


7. Find the value of x and y:

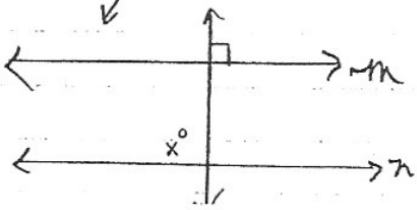


Find the value of x that makes m ∥ n

8.

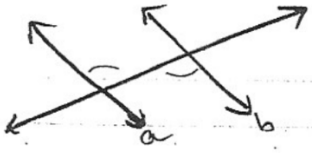


9.

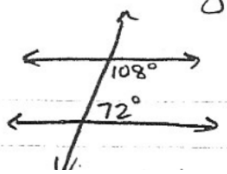


Is there enough information to prove that the lines are parallel? If so, state the theorem you would use.

10.



11.



Solve each equation.

12) $9 + \frac{n}{4} = 5$

13) $-3 = \frac{-4 + n}{3}$

14) Evaluate the function:
f(x) = 1.27x + 4.23 for x = -5

15) Find the value of x so that the function has the given value:
f(x) = 1.27x + 4.23 ; f (x) = 10.707

Solve each inequality.

16) $4(2 - 4x) \geq -88$

Find the distance between each pair of points.

17) $(5, 3), (-2, -1)$

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

18) $(1, 9), (-23, -31)$

Find the slope of the line through each pair of points.

19) $(16, -4), (2, 17)$

Rewrite the given point-slope equation in slope-intercept form.

20) $y - 2 = \frac{7}{4}(x + 28)$