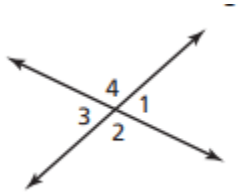
Math 1: Review 10B **Name**_____

1. Find the value of x and the measure of all four angles, given

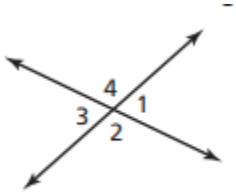
a.



$m\angle 1 = 8x°$

$m\angle 3 = (7x + 8)°$

b.



$m\angle 1 = (3x - 12)°$

$m\angle 2 = (2x - 8)°$

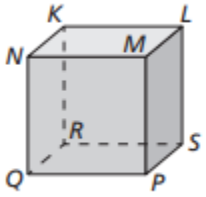
x=____ (Mark angle measures in diagram) x=_____

2. Use the words parallel, perpendicular, or skew to complete the statements. (All corners in the diagram are right angles.)

a. $\overleftrightarrow{LS}$ and $\overleftrightarrow{QR}$ are _____

b. $\overleftrightarrow{QR}$ and $\overleftrightarrow{ML}$ are _____

c. $\overleftrightarrow{QR}$ and $\overleftrightarrow{KR}$ are _____



d. Plane NQP and Plane KLS are _____

e. Plane NQP and Plane QPS are _____

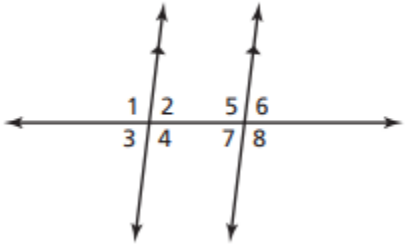
3. Identify if the following pairs of angles are corresponding, alternate interior, alternate exterior, or consecutive interior.

a. $\angle 2$ and $\angle 5$ _____

b. $\angle 3$ and $\angle 6$ _____

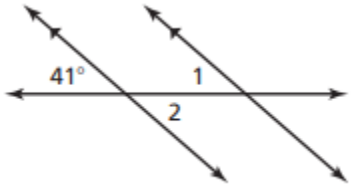
c. $\angle 2$ and $\angle 7$ _____

d. $\angle 3$ and $\angle 7$ _____

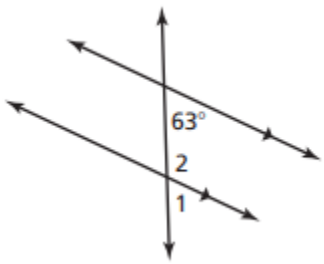


4. Find the measures of angles 1 and 2.

a.

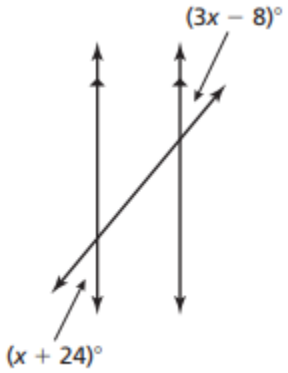


b.

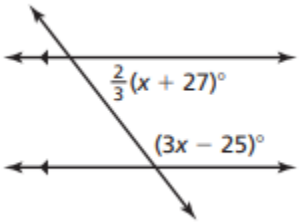


5. Find the value of x. What special angles helped you solve this?

a.

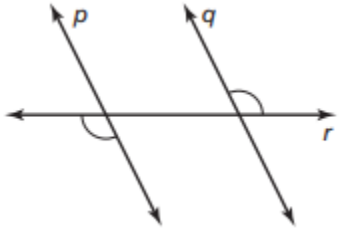


b.

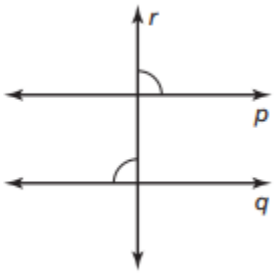


6. Decide whether there is enough information to prove p || q . Be sure to include any special angle pairs you used to make your decision.

a.



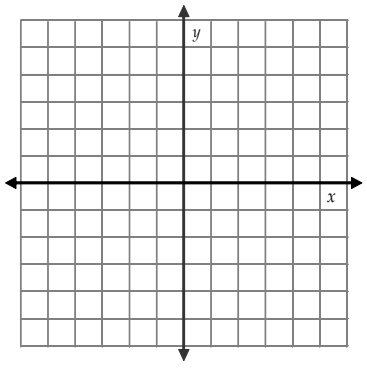
b.



7. If P is between M and T on $\overline{MT}$, and MP = 6x + 3, PT = 2x – 5, and MT = 22, find the value of x and MP.

x= _____ MP = _____

8. Graph the equation: y = 4x – 2



9. Write the equation of the line that passes through (4, 7) and (2, 15).

10. Solve the system of equations: x = 5y – 3

x + 2y = 11