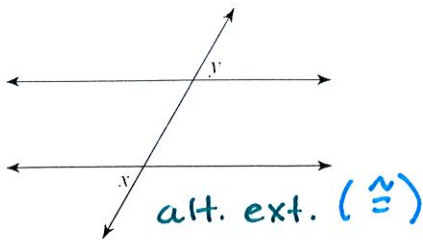


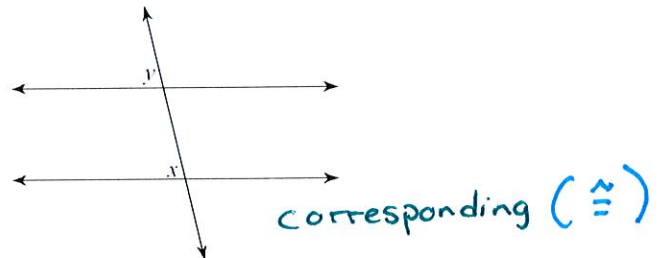
Unit 2A Quiz Practice

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

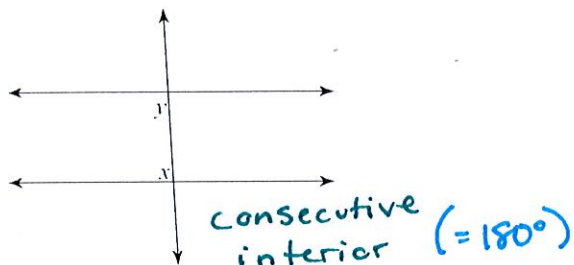
1)



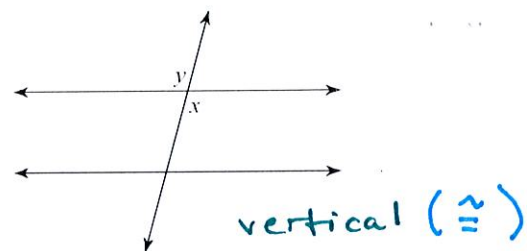
2)



3)

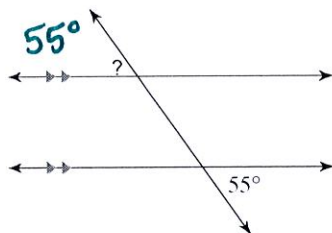


4)

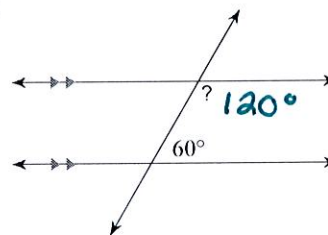


Find the measure of each angle indicated.

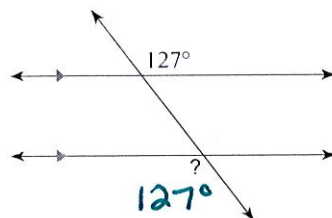
5)



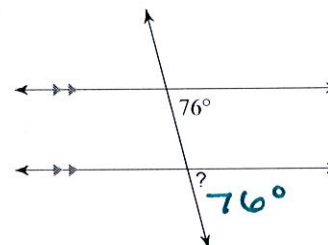
6)



7)

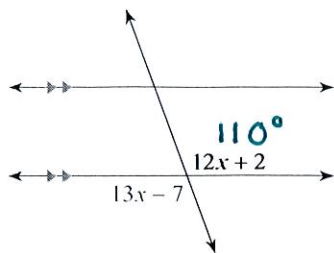


8)



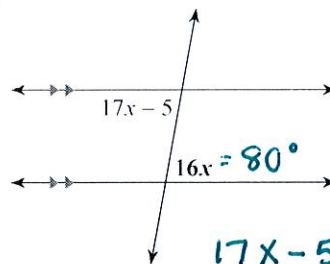
Find the measure of the angle indicated in bold.

9)



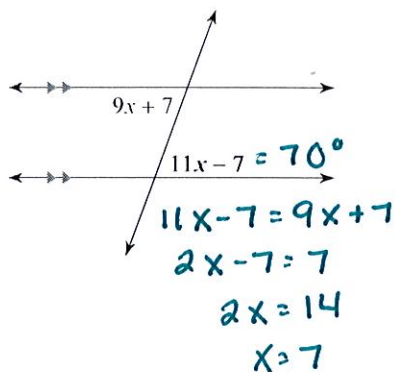
$$\begin{aligned} 13x - 7 &= 12x + 2 \\ x - 7 &= 2 \\ x &= 9 \end{aligned}$$

10)



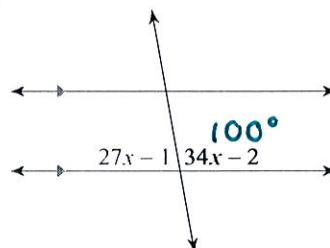
$$\begin{aligned} 17x - 5 &= 16x \\ -5 &= -x \\ 5 &= x \end{aligned}$$

11)



$$\begin{aligned} 11x - 7 &= 9x + 7 \\ 2x - 7 &= 7 \\ 2x &= 14 \\ x &= 7 \end{aligned}$$

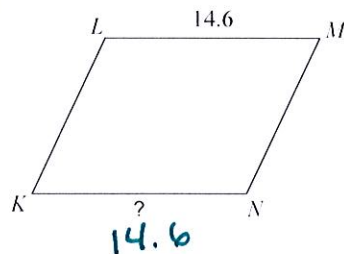
12)



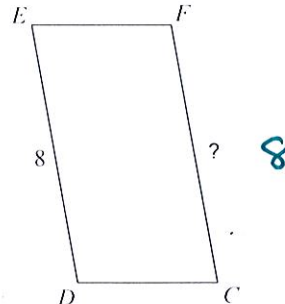
$$\begin{aligned} 27x - 1 + 34x - 2 &= 180 \\ 61x - 3 &= 180 \\ 61x &= 183 \\ x &= 3 \end{aligned}$$

Find the measurement indicated in each parallelogram.

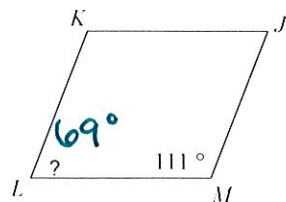
13)



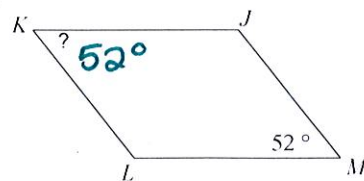
14)



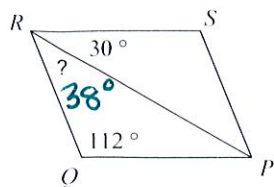
15)



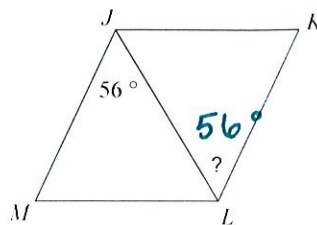
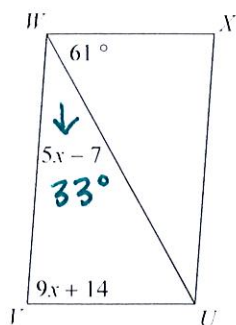
16)



17)



18)

19) Find $m\angle VWU$ 

$$61 + 5x - 7 + 9x + 14 = 180$$

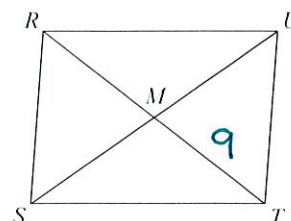
$$14x + 68 = 180$$

$$14x = 112$$

$$x = 8$$

20) $TM = x - 2$

$$MR = 2x - 13$$

Find TM 

$$x - 2 = 2x - 13$$

$$-2 = x - 13$$

$$11 = x$$

21) $DY = 9x$

$$DF = 19x - 1$$

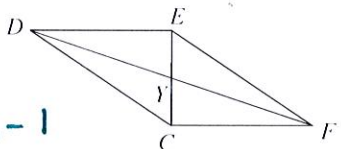
Find DF

$$2(9x) = 19x - 1$$

$$18x = 19x - 1$$

$$-x = -1$$

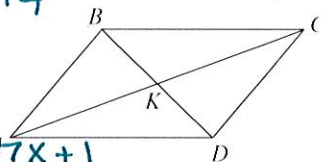
$$x = 1$$



$$DF = 18$$

22) $BK = 13x + 1 = 14$

$$BD = 27x + 1$$

Find BK 

$$2(13x + 1) = 27x + 1$$

$$26x + 2 = 27x + 1$$

$$2 = x + 1$$

$$1 = x$$

REMEMBER THERE WILL BE ONE PROVING QUESTION

23) How do you prove a parallelogram? Prove opposite sides are parallel (same slope) and congruent (same distance)

How do you prove a rectangle? Same as parallelogram + diagonals are congruent (same distance)

How do you prove a rhombus? Prove opposite sides are parallel (same slope) and ALL sides are congruent (same distance)

How do you prove a square? Same as rhombus + diagonals are congruent (same distance) and perpendicular (opposite reciprocals)