

Warm Up:

Grab a paper from back table and a computer (make sure you grab your desk number and keep computer shut until further instructions are given)

Solve the following System:

$$-2(6x + 2y = -6) \rightarrow -12x - 4y = 12$$

$$7x + 4y = 8 \rightarrow 7x + 4y = 8$$

$$7(-4) + 4y = 8$$

$$-28 + 4y = 8$$

$$4y = 36$$

$$y = 9$$

$$(-4, 9)$$

$$x = -4$$

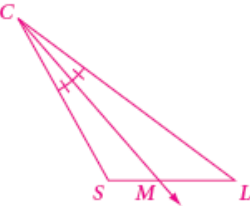
$$\begin{array}{r} -12x - 4y = 12 \\ 7x + 4y = 8 \\ \hline -5x = 20 \\ \hline x = -4 \end{array}$$

Homework Check:

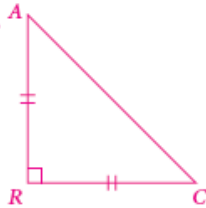
5.



6.



7.



17. true

18. true

19. False, a diagonal connects nonconsecutive vertices.

20. False, an angle bisector divides an angle into two congruent angles.

21. true

Investigation - geometer's sketchpad, open file on website

Trapezoid - a quadrilateral with exactly one pair of parallel sides

Kite - a quadrilateral with two distinct pairs of consecutive congruent sides

Parallelogram - a quadrilateral with two pairs of parallel sides

Rhombus - an equilateral parallelogram

Rectangle - an equiangular parallelogram

Square - an equilateral rectangle, equiangular rhombus, regular quadrilateral

