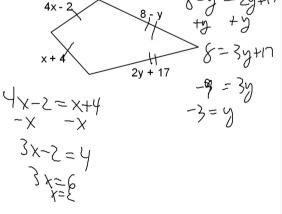


Geometry Bellwork Thursday, March 27, 2014

Use the properties of special quadrilaterals to find the value of each variable.

1. This figure is a Kite.



Characteristics of Special Quadrilaterals

Parallelogram: both pairs of opposite sides are parallel

Rhombus: a Parallelogram with $4 \cong sides$

Rectangle: a Parallelogram with 4 right angles

Kite: a Quadrilateral with two pairs of adjacent sides that are congruent and no opposite sides congruent.

Trapezoid: a Quadrilateral with exactly one pair of parallel sides (bases)

Isosceles Trapezoid: a Trapezoid whose nonparallel sides are congruent (legs)

2. This figure is a Rhombus

$$x = \frac{3}{2x + 2}$$

$$y = \frac{5}{2(3) + 3}$$

$$\begin{cases} 2x + 2 \\ 2(3) + 3 \end{cases}$$

$$\begin{cases} -10 \\ 8 \\ -10 \end{cases}$$

$$\begin{cases} 2x + 2 \\ 2(3) + 3 \end{cases}$$

$$\begin{cases} -10 \\ 8 \\ -10 \end{cases}$$

$$\begin{cases} -10 \\ 3x - 1 \\ -3x \\ 3x - 1 \end{cases}$$

$$\begin{cases} -10 \\ 3x - 1 \\ 3x - 1 \end{cases}$$

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