Characteristics of Special Quadrilaterals

Parallelogram: both pairs of opposite sides are parallel

Rhombus: a Parallelogram with 4 ≅ sides

Rectangle: a Parallelogram with 4 right angles

Square: a Parallelogram with 4 ≅ sides and 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)

Geometry Bellwork Friday, March 28, 2014

1. Use slope and distance to find the best name for quadrilateral ABCD?

Rectangle

Four right angles and only opp sides are congruent

A(5, 0) B(3, -4) C(-9, 2) D(-7, 6)

Slope

$AB = \frac{2}{1}$

$BC = \frac{-1}{2}$

$CD = \frac{2}{1}$

$DA = \frac{1}{2}$

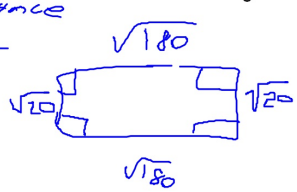
Distance

$\sqrt{20}$

$\sqrt{180}$

$\sqrt{20}$

$\sqrt{180}$



2. Use slope and distance to find the best name for quadrilateral EFGH?

Rhombus

Parallelogram with 4 ≅ and no right angles

E(2, -5) F(-14, -7) G(-6, 7) H(10, 9)

	Slope	dist
EF	1/6	√260
FG	7/4	√260
GH	1/8	√260
HE	7/4	√260