Bellwork Tuesday, April 29, 2014

Give the best name for Quadrilateral ABCD.

A(-6, 3) B(-3, -9) C(21, -3) D(18, 9)

RECTANGLE
opp sides ∥
w/ 4 RT ∠'s

SIDES

	slope	DISTANCE
AB	$\frac{12}{-3} = -4$	$\sqrt{153}$
BC	$\frac{6}{24} = \frac{1}{4}$	$\sqrt{612}$
CD	$\frac{12}{-3} = -4$	
DA	$\frac{6}{24} = \frac{1}{4}$	

DIAG

	MIDPT	slope	DIST
AC	(7.5, 0)	$\frac{6}{-27} = \frac{2}{-9}$	$\sqrt{765}$
BD	(7.5, 0)	$\frac{18}{21} = \frac{6}{7}$	$\sqrt{765}$

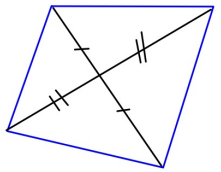
BISECT ∴ ∥-gram

NOT ⊥

≅

For 2-7, give the best name for each quadrilateral.

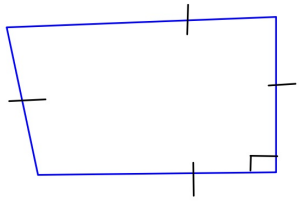
2.



DIAG BISECT EACH OTHER

∥-gram

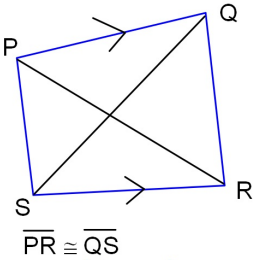
3.



4 ≅ sides & RIGHT ∠'s

∴ square

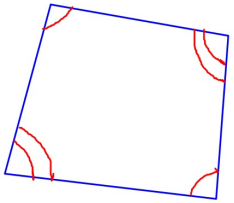
4.



$\overline{PR} \cong \overline{QS}$

1 pair ∥ sides
& ≅ diag
ISOSCELES TRAP

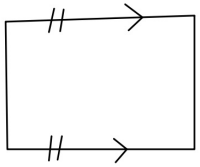
5.



opp ∠'s ≅

∥-gram

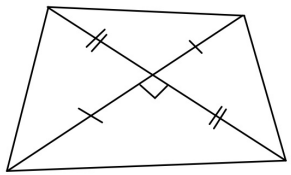
6.



1 pair sides
both ≅ & ∥

∥-gram

7.



diag bisect
diag ⊥

Rhombus