Bellwork Friday, April 4, 2014

1. Is ABCD a Parallelogram? Explain your answer.

A(24,18)

B(15, -8)

C(-7, -5)

D(2, 21)

AC  $\left(\frac{24+7}{2}, \frac{18+5}{2}\right) =$ 

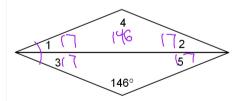
5)= (8.5 6.5

(8.5, 6.5)

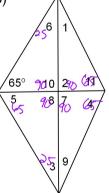
means diagonals

3. Find the measures of the numbered angles in the Rhombi below.

a)



b)



2. Use Rhombus ABCD to do the following:

A(1, -7)

B(6, 3)

C(-5, 1)

D(-10, -9)

Find the slope of both diagonals.

AC

$$m = \frac{-4}{3} \frac{-7 - 1}{1 - 5} = \frac{-8}{6} m = \frac{-8}{1}$$

How are the diagonals related to each other?

Perpendicular.

Slopes are opposite reciprocals