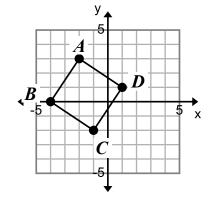
Name:	Period:	SCORE:	=	$% = \frac{1}{2} (1 - \frac{1}{2})^{2}$

## HW 6-6 & 6-7: Properties of Quadrilaterals

1. Determine whether the quadrilateral is a square based on the properties of sides, angles, and diagonals in squares. (Make sure you use correct notation in the table.)

Slope of the Sides:								
Langth of the Sides								
Length of the Sides:								
Angle Measures:								
Diagonals:								
Length:		Slope:		Rela	tionship:			
		1			1			

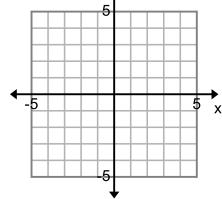


Is it a square? \_\_\_\_\_ Explain using a sentence and mathematical reasoning from the box above.

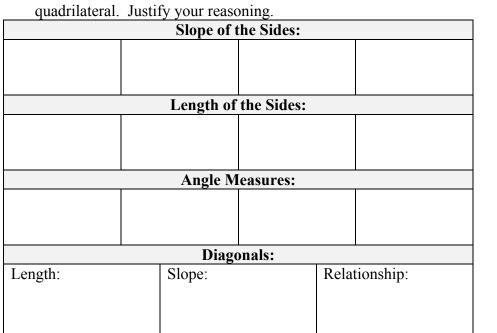
2. Determine whether the quadrilateral A(-4,1), B(3,3), C(4,-2),

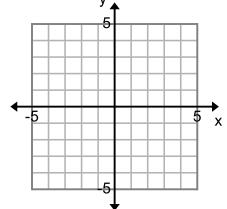
D(-3,-3) is a rectangle based on the properties of sides, angles and in rectangles. Justify your reasoning.

Slope of the Sides:								
Length of the Sides:								
Angle Measures:								
Diagonals:								
Length:	Slope:		Relationship:					
			•					



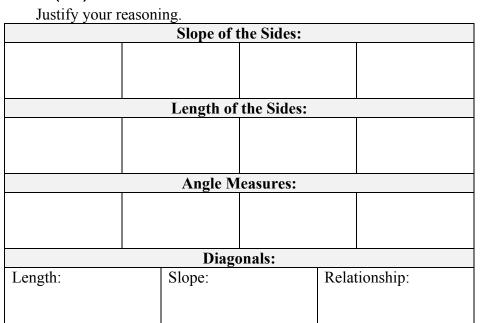
3. Determine the specific type of quadrilateral described by the vertices H(-4,1), I(2,3), J(3,-1), and K(-3,-3). Base your answer on the properties of sides, angles, and diagonals in each type of

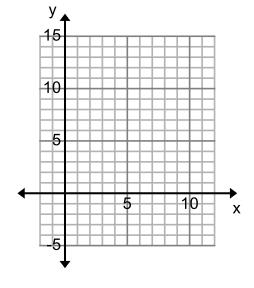




Type of quadrilateral: \_\_\_\_\_ Explain using a sentence and mathematical reasoning from the box.

4. Determine the specific type of quadrilateral described by the vertices R(-1,-5), S(8,2), J(11,13), and K(2,6). Base your answer on the properties of sides, angles, and diagonals in each type of quadrilateral.





Type of quadrilateral: \_\_\_\_\_ Explain using a sentence and mathematical reasoning from the box.