

Name: _____

Unit 8: Polygons & Quadrilaterals

Date: _____ Per: _____

Homework 6: Classifying Quadrilaterals
in the Coordinate Plane**** This is a 2-page document! ****

Directions: Given the vertices, determine the quadrilaterals most specific classification: Parallelogram, Rectangle, Rhombus, or Square. Justify your answer using the distance formula.

1. $S(-9, 14)$, $T(1, 10)$, $U(-3, 0)$, $V(-13, 4)$

$$\left. \begin{aligned} ST &= \sqrt{(1+9)^2 + (10-14)^2} = \sqrt{100 + 16} = \sqrt{116} = 2\sqrt{29} \\ TU &= \sqrt{(-3-1)^2 + (0-10)^2} = \sqrt{16 + 100} = \sqrt{116} = 2\sqrt{29} \\ UV &= \sqrt{(-13+3)^2 + (4-0)^2} = \sqrt{100 + 16} = \sqrt{116} = 2\sqrt{29} \\ SV &= \sqrt{(-13+9)^2 + (4-14)^2} = \sqrt{16 + 100} = \sqrt{116} = 2\sqrt{29} \end{aligned} \right\} \begin{array}{l} \text{Rhombus} \\ \text{or} \\ \text{Square} \end{array}$$

$$SU = \sqrt{(-3+9)^2 + (0-10)^2} = \sqrt{36 + 100} = \sqrt{136} = 2\sqrt{34}$$

$$TV = \sqrt{(-13-1)^2 + (4-10)^2} = \sqrt{196 + 36} = \sqrt{232} = 2\sqrt{58}$$

STUV is a Square2. $E(-7, -4)$, $F(2, -3)$, $G(0, -7)$, $H(-9, -8)$

$$\left. \begin{aligned} EF &= \sqrt{(2+7)^2 + (-3+4)^2} = \sqrt{81 + 1} = \sqrt{82} \\ FG &= \sqrt{(0-2)^2 + (-7+3)^2} = \sqrt{4 + 16} = \sqrt{20} = 2\sqrt{5} \\ GH &= \sqrt{(-9-0)^2 + (-8+7)^2} = \sqrt{81 + 1} = \sqrt{82} \\ EH &= \sqrt{(-9+7)^2 + (-8+4)^2} = \sqrt{4 + 16} = \sqrt{20} = 2\sqrt{5} \end{aligned} \right\} \begin{array}{l} \text{Parallelogram} \\ \text{or} \\ \text{Rectangle} \end{array}$$

$$EG = \sqrt{(0+7)^2 + (-7+4)^2} = \sqrt{49 + 9} = \sqrt{58}$$

$$FH = \sqrt{(-9-2)^2 + (-8+3)^2} = \sqrt{121 + 25} = \sqrt{146}$$

EFGH is a Parallelogram

Quadrilateral And Coordinate Geometry Answer Key

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