Name: _____

Date:_____ Period:_____

Classifying Quadrilaterals

All of the following information was found using the coordinates of the vertices of a quadrilateral. Use this information to classify each quadrilateral as a:

Square...Rectangle...Rhombus...Trapezoid...Isosceles Trapezoid...Kite...Parallelogram...or a Quadrilateral

1) Classify quadrilateral <i>BEAR</i> , where:	<i>BEAR</i> is a
Slope of $\overline{BE} = \frac{1}{3}$	Length of $\overline{BE} = \sqrt{10}$
Slope of $\overline{EA} = -3$	Length of $\overline{EA} = \sqrt{10}$
Slope of $\overline{AR} = \frac{1}{3}$	Length of $\overline{AR} = \sqrt{10}$
Slope of $\overline{BR} = -3$	Length of $\overline{BR} = \sqrt{10}$
2) Classify quadrilateral <i>OHMY</i> , where:	OHMY is a
Slope of $\overline{OH} = -\frac{1}{3}$	Length of $\overline{OH} = \sqrt{10}$
Slope of $\overline{HM} = -3$	Length of $\overline{HM} = 2\sqrt{10}$
Slope of $\overline{MY} = -\frac{1}{3}$	Length of $\overline{MY} = \sqrt{10}$
Slope of $\overline{OY} = -3$	Length of $\overline{OY} = 2\sqrt{10}$
3) Classify quadrilateral WZRD where	WZRD is a
5) Classify quadrifateral <i>WZND</i> , where.	
Slope of $\overline{WZ} = 0$	Length of $\overline{WZ} = 5$
Slope of $\overline{WZ} = 0$ Slope of $\overline{ZR} = -\frac{4}{3}$	Length of $\overline{WZ} = 5$ Length of $\overline{ZR} = 5$
Slope of $\overline{WZ} = 0$ Slope of $\overline{ZR} = -\frac{4}{3}$ Slope of $\overline{RD} = 0$	Length of $\overline{WZ} = 5$ Length of $\overline{ZR} = 5$ Length of $\overline{RD} = 5$
Slope of $\overline{WZ} = 0$ Slope of $\overline{ZR} = -\frac{4}{3}$ Slope of $\overline{RD} = 0$ Slope of $\overline{WD} = -\frac{4}{3}$	Length of $\overline{WZ} = 5$ Length of $\overline{ZR} = 5$ Length of $\overline{RD} = 5$ Length of $\overline{WD} = 5$
Slope of $\overline{WZ} = 0$ Slope of $\overline{ZR} = -\frac{4}{3}$ Slope of $\overline{RD} = 0$ Slope of $\overline{WD} = -\frac{4}{3}$	Length of $\overline{WZ} = 5$ Length of $\overline{ZR} = 5$ Length of $\overline{RD} = 5$ Length of $\overline{WD} = 5$
Slope of $\overline{WZ} = 0$ Slope of $\overline{ZR} = -\frac{4}{3}$ Slope of $\overline{RD} = 0$ Slope of $\overline{WD} = -\frac{4}{3}$ 4) Classify quadrilateral <i>POND</i> , where:	Length of $\overline{WZ} = 5$ Length of $\overline{ZR} = 5$ Length of $\overline{RD} = 5$ Length of $\overline{WD} = 5$ POND is a
Slope of $\overline{WZ} = 0$ Slope of $\overline{ZR} = -\frac{4}{3}$ Slope of $\overline{RD} = 0$ Slope of $\overline{WD} = -\frac{4}{3}$ 4) Classify quadrilateral <i>POND</i> , where: Slope of $\overline{PO} = \frac{1}{4}$	Length of $\overline{WZ} = 5$ Length of $\overline{ZR} = 5$ Length of $\overline{RD} = 5$ Length of $\overline{WD} = 5$ POND is a Length of $\overline{PO} = \sqrt{17}$
Slope of $\overline{WZ} = 0$ Slope of $\overline{ZR} = -\frac{4}{3}$ Slope of $\overline{RD} = 0$ Slope of $\overline{WD} = -\frac{4}{3}$ 4) Classify quadrilateral <i>POND</i> , where: Slope of $\overline{PO} = \frac{1}{4}$ Slope of $\overline{ND} = \frac{6}{7}$	Length of $\overline{WZ} = 5$ Length of $\overline{ZR} = 5$ Length of $\overline{RD} = 5$ Length of $\overline{WD} = 5$ Length of $\overline{WD} = \sqrt{17}$ Length of $\overline{ND} = \sqrt{85}$
Slope of $\overline{WZ} = 0$ Slope of $\overline{ZR} = -\frac{4}{3}$ Slope of $\overline{RD} = 0$ Slope of $\overline{WD} = -\frac{4}{3}$ 4) Classify quadrilateral <i>POND</i> , where: Slope of $\overline{PO} = \frac{1}{4}$ Slope of $\overline{ND} = \frac{6}{7}$ Slope of $\overline{ON} = -4$	Length of $\overline{WZ} = 5$ Length of $\overline{ZR} = 5$ Length of $\overline{RD} = 5$ Length of $\overline{WD} = 5$ POND is a Length of $\overline{PO} = \sqrt{17}$ Length of $\overline{ND} = \sqrt{85}$ Length of $\overline{ON} = \sqrt{17}$
Slope of $\overline{WZ} = 0$ Slope of $\overline{ZR} = -\frac{4}{3}$ Slope of $\overline{RD} = 0$ Slope of $\overline{WD} = -\frac{4}{3}$ 4) Classify quadrilateral <i>POND</i> , where: Slope of $\overline{PO} = \frac{1}{4}$ Slope of $\overline{ND} = \frac{6}{7}$ Slope of $\overline{ON} = -4$ Slope of $\overline{DP} = \frac{9}{2}$	Length of $\overline{WZ} = 5$ Length of $\overline{ZR} = 5$ Length of $\overline{RD} = 5$ Length of $\overline{WD} = 5$ POND is a Length of $\overline{PO} = \sqrt{17}$ Length of $\overline{ND} = \sqrt{85}$ Length of $\overline{ON} = \sqrt{17}$ Length of $\overline{DP} = \sqrt{85}$
Slope of $\overline{WZ} = 0$ Slope of $\overline{ZR} = -\frac{4}{3}$ Slope of $\overline{RD} = 0$ Slope of $\overline{WD} = -\frac{4}{3}$ 4) Classify quadrilateral <i>POND</i> , where: Slope of $\overline{PO} = \frac{1}{4}$ Slope of $\overline{ND} = \frac{6}{7}$ Slope of $\overline{ON} = -4$ Slope of $\overline{DP} = \frac{9}{2}$	Length of $\overline{WZ} = 5$ Length of $\overline{ZR} = 5$ Length of $\overline{RD} = 5$ Length of $\overline{WD} = 5$ Length of $\overline{WD} = \sqrt{17}$ Length of $\overline{ND} = \sqrt{85}$ Length of $\overline{DP} = \sqrt{17}$ Length of $\overline{DP} = \sqrt{85}$