What	Kind	of	Quadrilateral is	S	THIS???
Part T	V				

Name____

Before completing this activity, go to the following link: http://tube.geogebra.org/m/2747645

- 1) In this applet, points *A*, *C*, and *B* are collinear. In addition, points *D*, *C*, and *E* are collinear. What does it means for points to be collinear?
- 2) Construct segments \overline{AC} and \overline{BC} . Then measure and display the length of each segment. What do you immediately notice?
- Fill in the blank:
 According to your results for (1) and (2) above, we can conclude that C is the
 _____ of \overline{AB}
- 4) Construct segments \overline{DC} and \overline{EC} . Then measure and display the length of each segment. What do you immediately notice?
- 5) Fill in the blank: According to your results for (4) and (1) above, we can conclude that C is the _____ of \overline{DE} .
- 6) Now use the **Polygon** tool to construct quadrilateral *ADBE*.
- 7) Move any one or more of the points *A*, *D*, *B*, and *E* around. How would you specifically classify quadrilateral *ADBE*?
- 8) Use GeoGebra to measure and display the **slopes of sides** \overline{AD} and \overline{EB} . What do you notice? Does this phenomenon still hold true if you move the red vertices around?
- 9) What does your response for (8) indicate about \overline{AD} and \overline{EB} ?

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formally prove this theo If one diagonal of a	orem later):	intersects the other
formally prove this the	orem later):	
		g theorem by filling in the blanks. (You'll
According to your resul Why is this?	ts for (9) and (11) above	e, how would you classify quadrilateral <i>ADBI</i>
What does your respon	se for (10) indicate abou	ut \overline{AE} and \overline{DB} ?

Now select the **Text** tool, and create another textbox that displays this completed bolded sentence above. Move this text somewhere on the screen so it's not inside the parallelogram. **Save** your file now, and make it **Public**. (You—and the rest of the world—should be able to access it at any time!)