Lesson 13.2 Practice: Classifying Figures with Coordinates

School Launch · Geometry · Unit 13: Coordinate Geometry and Proof · Worksheet A

Calculator allowed

Name _____ Date _____ Score _____ / 10

Show your work under each problem, one step per line, and check your answer. Word problems: name the unknown, write the equation, solve, and answer in a sentence with units.

1. Classify $ABCD$ with $A(2,0)$, $B(6,4)$, $C(-2,12)$, $D(-6,8)$ as precisely as possible (parallelogram, rectangle, rhombus or square). Show slopes/lengths. EASY

2. Classify $ABCD$ with $A(-2,0)$, $B(3,0)$, $C(4,3)$, $D(-1,3)$ as precisely as possible (parallelogram, rectangle, rhombus or square). Show slopes/lengths. EASY

3. Classify $ABCD$ with $A(-1,-4)$, $B(0,1)$, $C(-10,3)$, $D(-11,-2)$ as precisely as possible (parallelogram, rectangle, rhombus or square). Show slopes/lengths. EASY

4. Classify $ABCD$ with $A(-1,2)$, $B(3,2)$, $C(4,7)$, $D(0,7)$ as precisely as possible (parallelogram, rectangle, rhombus or square). Show slopes/lengths. MEDIUM

5. Classify $ABCD$ with $A(-3,-1)$, $B(-2,3)$, $C(-10,5)$, $D(-11,1)$ as precisely as possible (parallelogram, rectangle, rhombus or square). Show slopes/lengths. MEDIUM

6. Classify $ABCD$ with $A(-5,-2)$, $B(-1,2)$, $C(-9,10)$, $D(-13,6)$ as precisely as possible (parallelogram, rectangle, rhombus or square). Show slopes/lengths. MEDIUM

7. Classify $ABCD$ with $A(2,-5)$, $B(4,0)$, $C(-1,2)$, $D(-3,-3)$ as precisely as possible (parallelogram, rectangle, rhombus or square). Show slopes/lengths. MEDIUM

8. Classify $ABCD$ with $A(2,1)$, $B(3,1)$, $C(4,7)$, $D(3,7)$ as precisely as possible (parallelogram, rectangle, rhombus or square). Show slopes/lengths. HARD

9. Classify $ABCD$ with $A(-5,0)$, $B(-2,2)$, $C(0,5)$, $D(-3,3)$ as precisely as possible (parallelogram, rectangle, rhombus or square). Show slopes/lengths. HARD

10. Classify $ABCD$ with $A(2,2)$, $B(7,6)$, $C(11,11)$, $D(6,7)$ as precisely as possible (parallelogram, rectangle, rhombus or square). Show slopes/lengths. HARD