

Instructions

Place the location of $A, B, C,$ and D according to the Question below, and identify what sort of special quadrangle it is (Trapezoid, Parallelogram, Rectangle, Rhombus or Square), if any, and by what characteristic you could prove that it is. For example, number one is a parallelogram, since after locating the vertices at $A(2, 2) B(6, 8) C(20, 8) D(16, 2)$, and selecting the menu to show the angles, the opposite angles are congruent.

1. $A(2, 2) B(6, 8) C(20, 8) D(16, 2)$
 - (a) Quadrangle
 - (b) Trapezoid
 - (c) Parallelogram
 - (d) Rectangle
 - (e) Rhombus
 - (f) Square
2. $A(0, -6) B(-8, -2) C(-4, 2) D(4, -2)$
 - (a) Quadrangle
 - (b) Trapezoid
 - (c) Parallelogram
 - (d) Rectangle
 - (e) Rhombus
 - (f) Square
3. $A(2, 4) B(-6, -2) C(-14, 4) D(-6, 10)$
 - (a) Quadrangle
 - (b) Trapezoid
 - (c) Parallelogram
 - (d) Rectangle
 - (e) Rhombus
 - (f) Square
4. $A(2, 2) B(6, -6) C(-2, -2) D(-6, 6)$
 - (a) Quadrangle
 - (b) Trapezoid
 - (c) Parallelogram
 - (d) Rectangle
 - (e) Rhombus
 - (f) Square
5. $A(8, -2) B(-4, -2) C(-4, 4) D(8, 4)$
 - (a) Quadrangle
 - (b) Trapezoid
 - (c) Parallelogram
 - (d) Rectangle
 - (e) Rhombus
 - (f) Square
6. $A(-10, 0) B(-6, 8) C(10, 0) D(6, -8)$
 - (a) Quadrangle
 - (b) Trapezoid
 - (c) Parallelogram
 - (d) Rectangle
 - (e) Rhombus
 - (f) Square
7. $A(4, 4) B(4, -4) C(-4, -4) D(-4, 4)$
 - (a) Quadrangle
 - (b) Trapezoid
 - (c) Parallelogram
 - (d) Rectangle
 - (e) Rhombus
 - (f) Square
8. $A(0, 6) B(6, 0) C(0, -6) D(-6, 0)$
 - (a) Quadrangle
 - (b) Trapezoid
 - (c) Parallelogram
 - (d) Rectangle
 - (e) Rhombus
 - (f) Square

9. $A(-14, 0)$ $B(-8, -8)$ $C(-2, 8)$ $D(-2, 0)$
- (a) Quadrangle
 - (b) Trapezoid
 - (c) Parallelogram
 - (d) Rectangle
 - (e) Rhombus
 - (f) Square
10. $A(8, 12)$ $B(10, 6)$ $C(8, -6)$ $D(-6, 0)$
- (a) Quadrangle
 - (b) Trapezoid
 - (c) Parallelogram
 - (d) Rectangle
 - (e) Rhombus
 - (f) Square
11. $A(0, 0)$ $B(4, 8)$ $C(8, 0)$ $D(4, -4)$
- (a) Quadrangle
 - (b) Trapezoid
 - (c) Parallelogram
 - (d) Rectangle
 - (e) Rhombus
 - (f) Square
12. $A(12, 0)$ $B(6, -10)$ $C(-8, 0)$ $D(6, 10)$
- (a) Quadrangle
 - (b) Trapezoid
 - (c) Parallelogram
 - (d) Rectangle
 - (e) Rhombus
 - (f) Square