

Algebra 2

Writing Assignment: Quadrilaterals Challenge Problems

Each problem is worth 5 Points

Total Points: 10

1. The following is a parallelogram. Find x and y using the given information.

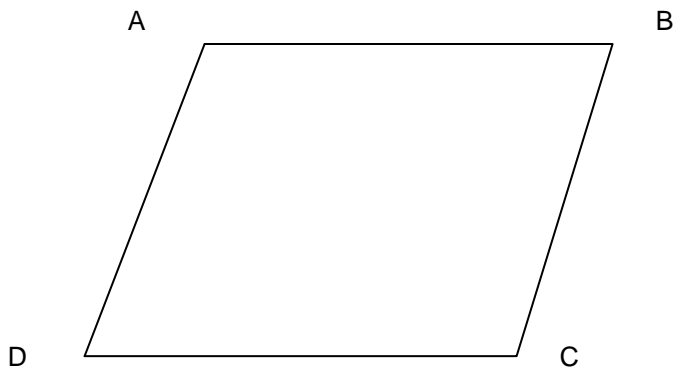
$$\overline{AB} \parallel \overline{DC}$$

$$\overline{AB} = 5x - 2y$$

$$\overline{DC} = 4$$

$$\overline{AD} = y$$

$$\overline{BC} = 5 - x$$



2. The following is a rectangle. Find x and y using the information given.

$$\overline{AB} = 2x$$

$$\overline{DC} = -7y - 1$$

$$\overline{AD} = x$$

$$\overline{BC} = -2y + 10$$

