

Conic Sections CS1: Midpoint and Distance

What is the midpoint of the line segment between the two points:

1. $(0, 0)$ & $(10, 12)$

2. $(5, -2)$ & $(-3, 6)$

3. $(5, 7)$ & $(1, -5)$

4. $(3, 3)$ & $(4, -5)$

Find the distance between the two points:

5. $(0, 0)$ & $(10, 12)$

6. $(5, -2)$ & $(-3, 6)$

7. $(5, 7)$ & $(1, -5)$

8. $(3, 3)$ & $(4, -5)$

9. A quadrilateral has vertices at $(3, 5)$, $(4, 4)$, $(-1, 0)$ and $(0, -1)$.

What is the perimeter of the quadrilateral?