

Distance problems

1. Find all points which are distance 5 from both $(1, 1)$ and $(7, 1)$.
2. Consider quadrilateral $ABCD$ defined by $A = (3, 4)$, $B = (-1, 1)$, $C = (-4, -3)$, $D = (8, 2)$. Find the perimeter of $ABCD$.

