

6 Points $A (-7, -7)$, $B (8, -1)$, $C (4, 9)$ and $D (-11, 3)$ are the vertices of a quadrilateral $ABCD$.

6 (a) Prove that $ABCD$ is a rectangle.

[4 marks]

6 (b) Find the area of $ABCD$.

[2 marks]