



The diagram shows a trapezium $ABCD$ in which AB is parallel to DC and angle BAD is 90° . The coordinates of A , B and C are $(2, 6)$, $(5, -3)$ and $(8, 3)$ respectively.

(i) Find the equation of AD . [3]

(ii) Find, by calculation, the coordinates of D . [3]

The point E is such that $ABCE$ is a parallelogram.

(iii) Find the length of BE . [2]