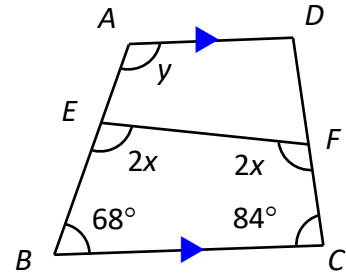
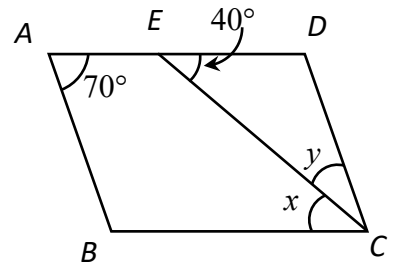


8.1 Parallelograms 平行四邊形

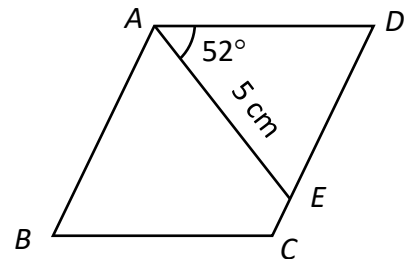
1. In the figure, $ABCD$ is a trapezium with $AD \parallel BC$. E and F are two points on AB and DC respectively. $\angle B = 68^\circ$ and $\angle C = 84^\circ$. Find the values of x and y .



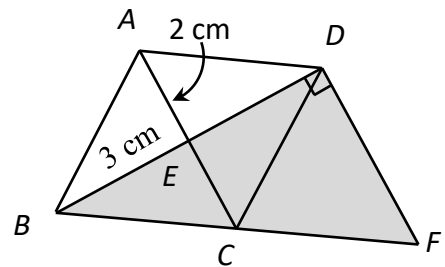
2. In the figure, $ABCD$ is a parallelogram. E is a point on AD . $\angle A = 70^\circ$ and $\angle DEC = 40^\circ$. Find the values of x and y .



3. In the figure, $ABCD$ is a parallelogram and E is a point on DC . $AD = AE$, $AE = 5$ cm and $\angle EAD = 52^\circ$.
- Find BC .
 - Find $\angle ABC$.



4. In the figure, $ABCD$ and $ACFD$ are parallelograms. AC and BD intersect at E . $DF \perp BD$. $AE = 2$ cm and $BE = 3$ cm. Find the area of $\triangle BDF$.



5. In the figure, EBC is a straight line. $AB = DC$ and $\angle ABE = \angle DCB = 100^\circ$. Prove that $ABCD$ is a parallelogram.

