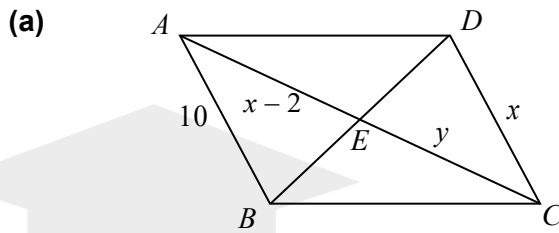


Student No.:	Date: / /	Score:
Student Name:		/15

Revision of Quadrilaterals (I)

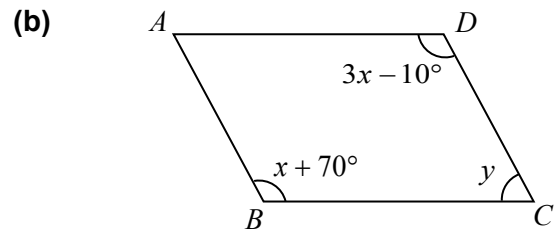
Exercises

1. In each of the following, $ABCD$ is a parallelogram. Find the values of x and y .



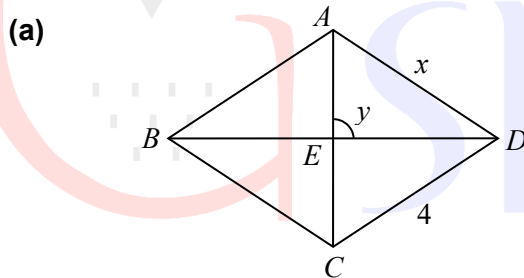
AEC and BED are straight lines.

$x = \underline{\hspace{2cm}}$, $y = \underline{\hspace{2cm}}$.



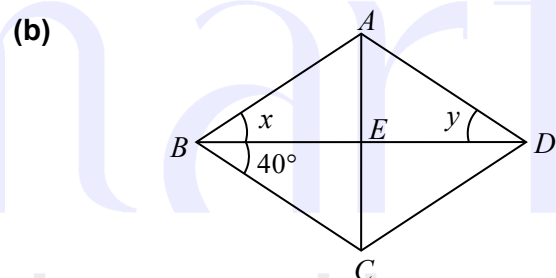
$x = \underline{\hspace{2cm}}$, $y = \underline{\hspace{2cm}}$.

2. In each of the following, $ABCD$ is a rhombus. Find the values of x and y .



AEC and BED are straight lines.

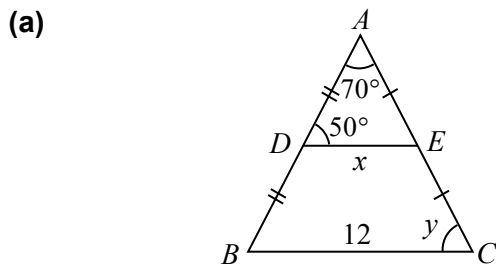
$x = \underline{\hspace{2cm}}$, $y = \underline{\hspace{2cm}}$.



AEC and BED are straight lines.

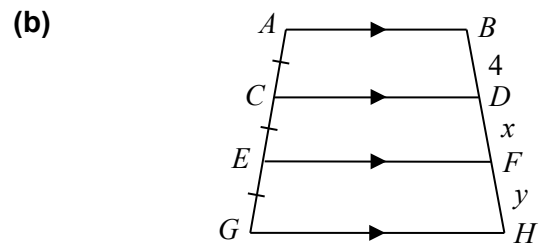
$x = \underline{\hspace{2cm}}$, $y = \underline{\hspace{2cm}}$.

3. Find the unknowns in the following figures.



AEC and ADB are straight lines.

$x = \underline{\hspace{2cm}}$, $y = \underline{\hspace{2cm}}$.

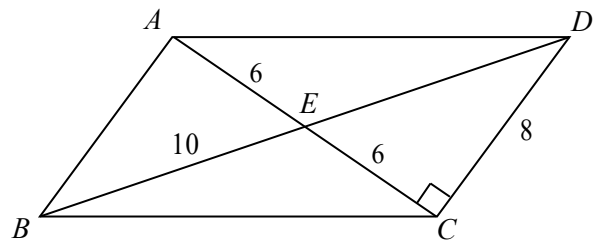


$ACEG$ and $BDFH$ are straight lines.

$x = \underline{\hspace{2cm}}$, $y = \underline{\hspace{2cm}}$.

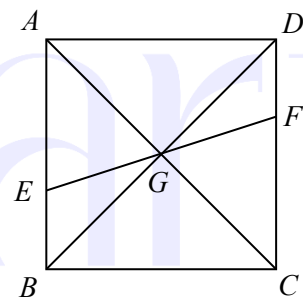
S3E-50A

4. In the figure, AC and BD intersect at E . It is given that $AE = EC = 6$, $CD = 8$ and $BE = 10$. Prove that $ABCD$ is a parallelogram.

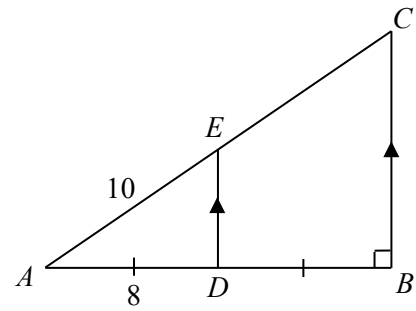


5. In the figure, $ABCD$ is a square. AC and BD intersect at G . E and F are points on AB and DC respectively. EGF is a straight line.

- (a) Prove that $\triangle AEG \cong \triangle CFG$.
(b) Prove that G is the mid-point of EF .

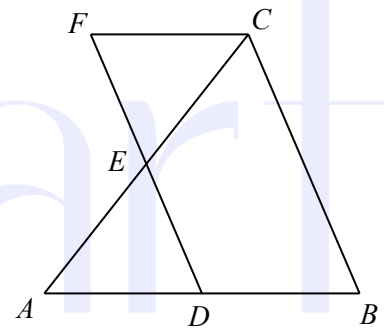


6. In the figure, ADB and AEC are straight lines. It is given that $BC \parallel DE$ and $AD = DB$. Find the perimeter of $BCED$.



7. In the figure, D is the mid-point of AB and E is the mid-point of AC and DF .

- (a) Prove that $AD = CF$.
 (b) Prove that $BCFD$ is a parallelogram.



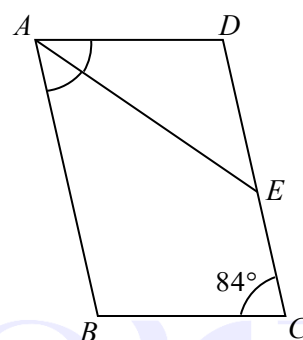
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M.C.

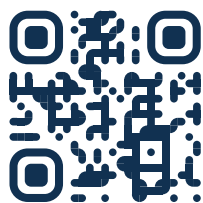
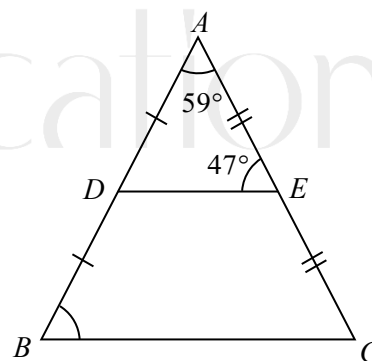
- Which of the following statements about parallelogram is not true?
 - The diagonals bisect each other.
 - It has two pairs of opposite angles equal.
 - It has two pairs of adjacent sides equal in length.
 - It has two pairs of opposite sides equal in length.
- In the figure, $ABCD$ is a parallelogram. E is a point on CD such that EA is the angle bisector of $\angle BAD$. It is given that $\angle BED = 84^\circ$. Find $\angle DEA$.

- 42°
- 46°
- 50°
- 54°



- In the figure, D and E are the mid-points of AB and AC respectively. If $\angle BAC = 59^\circ$ and $\angle AED = 47^\circ$, find $\angle ABC$.

- 47°
- 59°
- 64°
- 74°



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