

TOPIK : GARIS LURUS

- 1 Diagram 1 shows a straight line ST and a straight line PQ drawn on a Cartesian plane. ST is parallel to PQ . Given that equation of the straight line ST is $2y = 8x + 3$.

Rajah 1 menunjukkan garis lurus ST dan PQ dilukis pada suatu satah Cartesan. ST dan PQ ialah garisan yang selari. Diberi persamaan garis lurus ST ialah $2y = 8x + 3$.

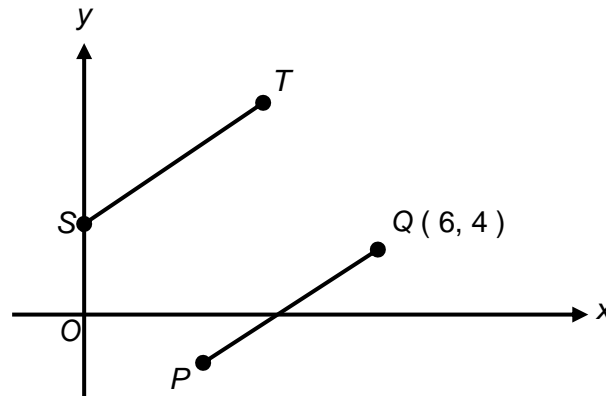


Diagram 1/ Rajah 1

Find,

Cari,

- (a) the equation of the straight line PQ ,
persamaan garis lurus PQ ,
- (b) the x-intercept of the straight line PQ .
pintasan-x bagi garis lurus PQ .

[5 marks/ 5 markah]

Answer / Jawapan:

- 2 Diagram 2 shows ABCD is a trapezium drawn on a Cartesian plane. The equation of straight line BC is $y + 2x = 15$. M is the midpoint of BC.

Rajah 2 menunjukkan ABCD ialah sebuah trapezium dilukis pada suatu satah Cartesian. Persamaan garis lurus BC ialah $y + 2x = 15$. M ialah titik tengah BC.

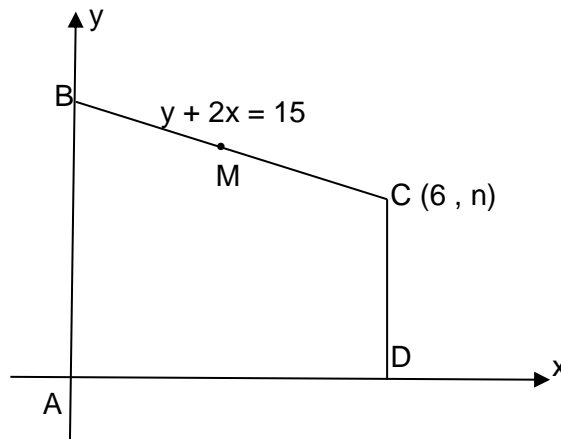


Diagram 2/Rajah 2

Find

Cari

- (a) the value of n,

nilai n,

- (b) the coordinates of M,

koordinat M,

- (c) the equation of straight line MD.

persamaan garis lurus MD.

[6 marks/ 6 markah]

Answer / Jawapan:

- 3 Diagram 3 shows $OPQR$ is a trapezium drawn on a Cartesian plane

Rajah 3 menunjukkan $OPQR$ ialah sebuah trapezium pada suatu satah Cartesian.

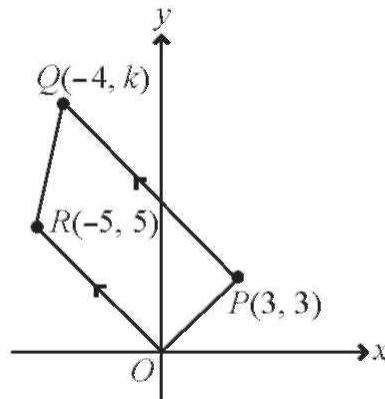


Diagram 3/Rajah 3

Find

Cari

- (a) the value of k ,
nilai k ,
- (b) the equation of the line PQ ,
persamaan garis lurus PQ ,
- (c) the x-intercept of the line PQ .
pintasan- x bagi garis lurus PQ .

[6 marks/6 markah]

Answer / Jawapan:

- 4 Diagram 4 shows an isosceles triangle ABC and a straight line AD drawn on a Cartesian plane. Given that the x -intercept and the gradient of the straight line AD are 5 and $-\frac{6}{5}$.

Rajah 4 menunjukkan segi tiga sama kaki ABC dan garis lurus AD pada suatu satah Cartesian. Diberi pintasan- x dan kecerunan garis lurus AD ialah 5 dan $-\frac{6}{5}$.

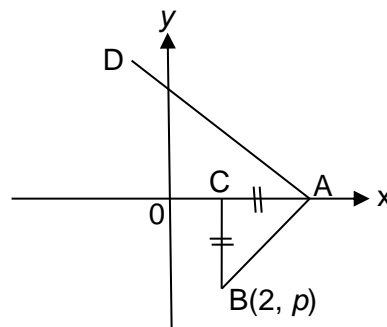


Diagram 4 / Rajah 4

Find

Cari

- (a) the value of p ,
nilai p ,
- (b) the equation of the straight line AB .
persamaan bagi garis lurus AB .

[5 marks/5 markah]

Answer / Jawapan:

- 5 Diagram 5 shows ABC is a triangle such that BC parallel to the x-axis drawn on a Cartesian plane. Given that the area of the triangle ABC is $12\frac{1}{2}$ unit².

Rajah 5 menunjukkan ABC ialah segitiga dengan keadaan BC selari dengan paksi-x pada suatu satah Cartesan. Diberi bahawa luas segitiga ABC ialah $12\frac{1}{2}$ unit².

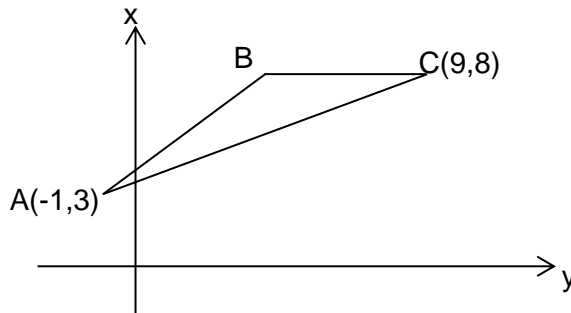


Diagram 5 / Rajah 5

Find

Cari

- (a) the coordinate of the vertex B.

koordinat bucu B.

- (b) the equation of the straight line BC

persamaan garis lurus BC

- (c) the equation of the straight line AC

persamaan garis lurus AC

[5 marks/5 markah]

Answer/Jawapan: