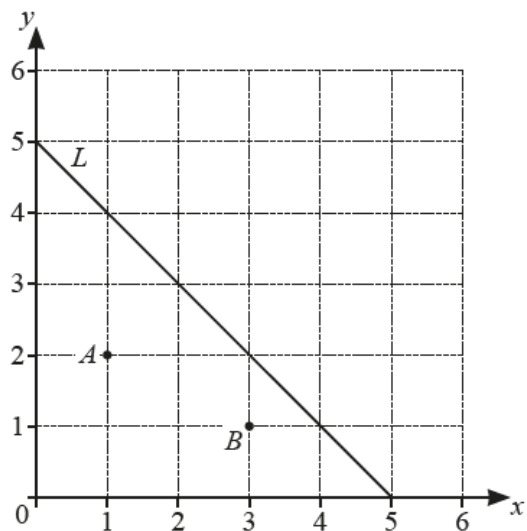


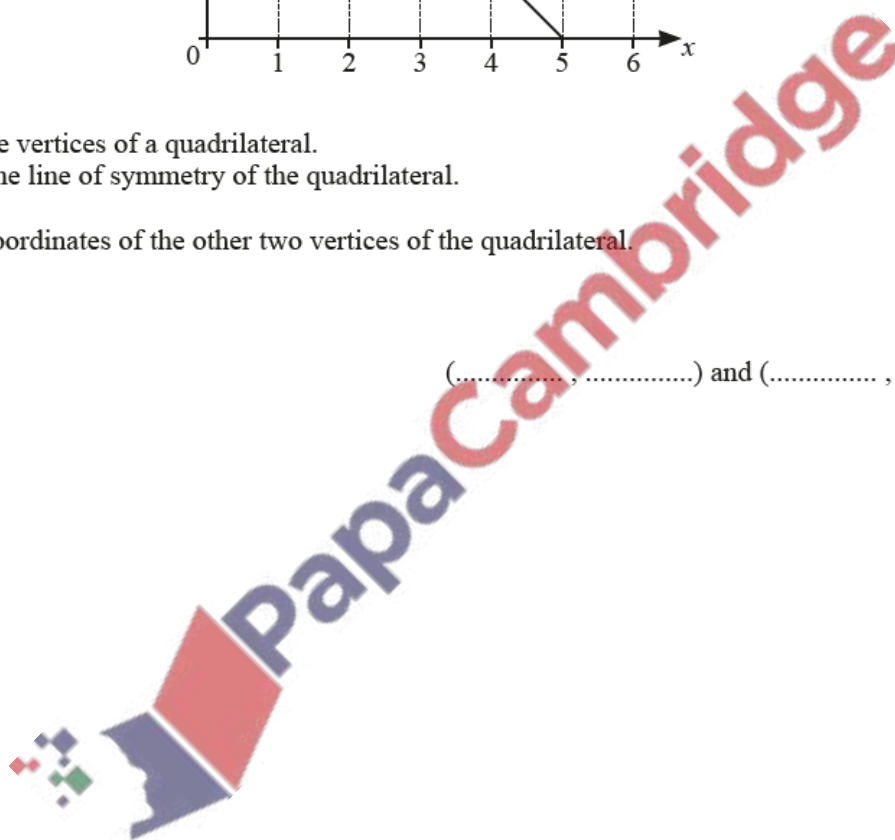
1. June/2022/Paper_12/No.3



A and B are vertices of a quadrilateral.
Line L is the line of symmetry of the quadrilateral.

Find the coordinates of the other two vertices of the quadrilateral.

(.....,) and (.....,) [2]



2. June/2022/Paper_12/No.5

The scale drawing shows the positions of two villages, *A* and *B*.
The scale is 1 cm to 2 km.



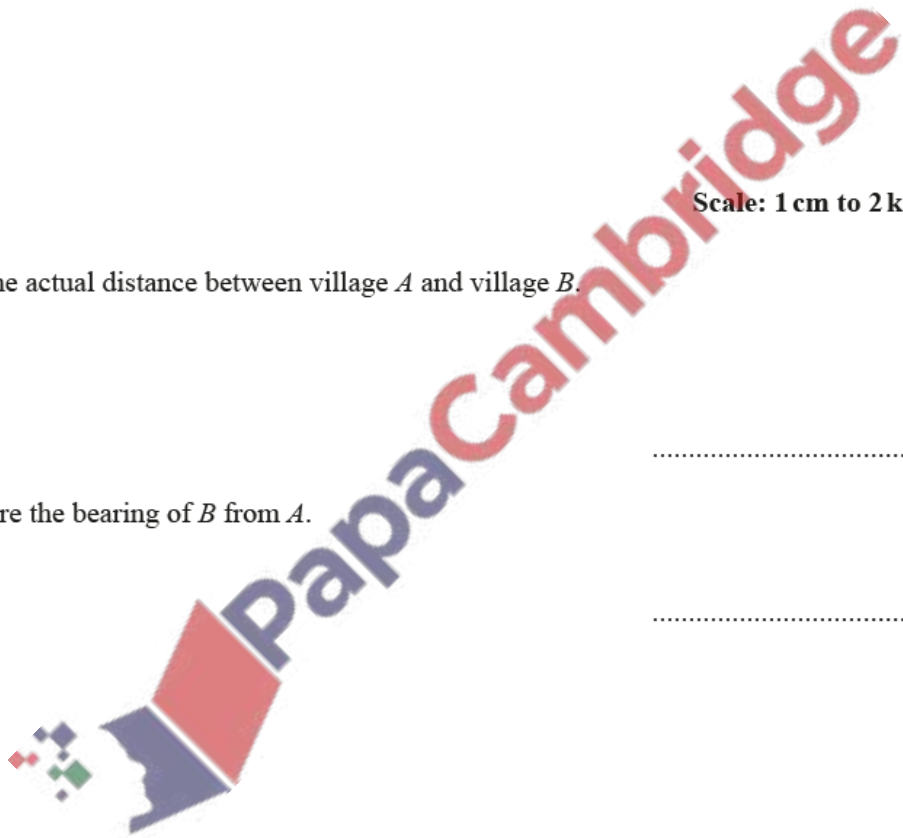
Scale: 1 cm to 2 km

(a) Find the actual distance between village *A* and village *B*.

..... km [2]

(b) Measure the bearing of *B* from *A*.

..... [1]



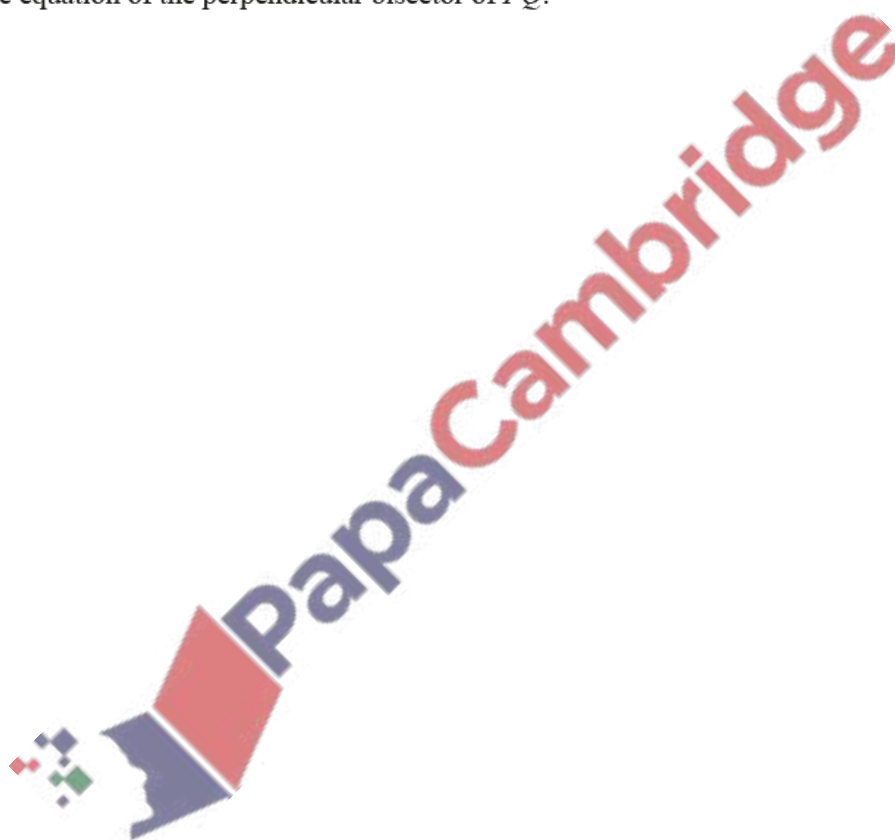
3. June/2022/Paper_21/No.11

P is the point $(3, -3)$ and Q is the point $(1, 5)$.

(a) Calculate the length of PQ .

..... [2]

(b) Find the equation of the perpendicular bisector of PQ .



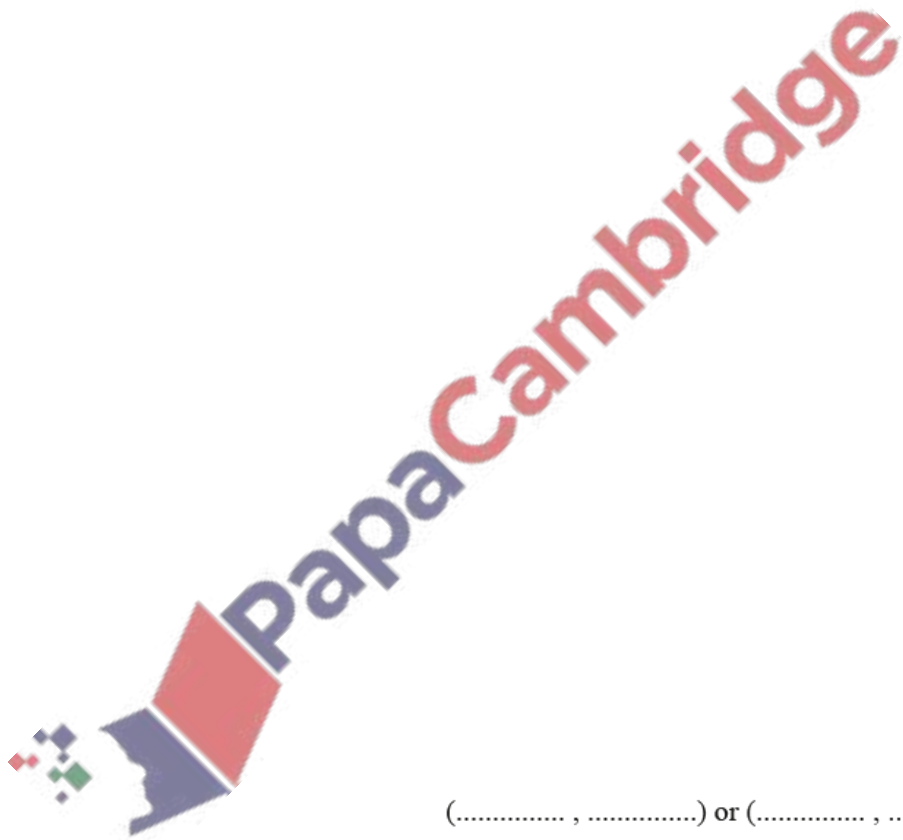
..... [5]

4. June/2022/Paper_22/No.10

D is the point $(4, 6)$ and E is the point (e, e) .

(a) The length of DE is $\sqrt{20}$.

Form an equation in e and solve it to find the possible coordinates of E .
Show your working.



(.....,) or (.....,) [5]

(b) F is the point $(-f, 5f)$.

The gradient of the perpendicular bisector of DF is $\frac{3}{2}$.

(i) Find the value of f .

$f = \dots\dots\dots$ [4]

(ii) The equation of the perpendicular bisector of DF is $2y = 3x + k$.

Find the value of k .

$k = \dots\dots\dots$ [3]

