Question 1
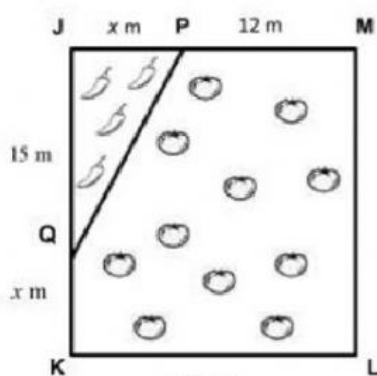
The Diagram 4 below show vegetable farm of chilies and tomatoes in rectangle form JKLM. Given that JP = KQ = X m. There are iron fences at the whole area farm.

Rajah 4
Diagram 4

(a) Evaluate an expression for farm area, L m², in term of x

Calculation, L =

[ ]

= [ ]

Answer, = [ ]

(b) Given that area of the farm in rectangles is 460 m². Find the value of x.

[ ] = 460

[ ] = 0

[ ] = 0

([ ]) X ([ ]) = 0

Answer, X = [ ]

(c) Safwan wants to build a fence to separate the area of chili vegetables with tomatoes at point P to point Q. If the price of the fence is RM50 per meter and Safwan has a budget of RM 1000. State whether Safwan has a sufficient budget to build the fence and give the total cost.
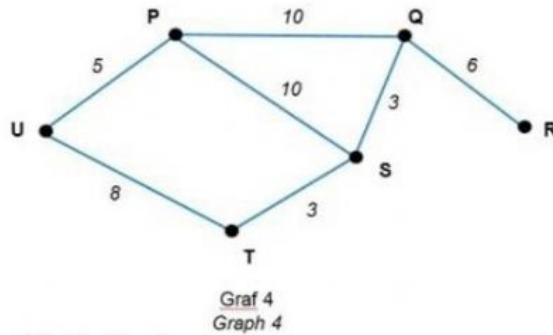
C = $\sqrt{}$

= $\sqrt{}$

= $\sqrt{}$

Answer, =

Question 2

The Graph 4 below shows indirect weighted graph.

Graf 4
Graph 4

(a) Complete Table 4 below:

Vertex Pair	Weight
(P, Q)	10
(P, S)	
(P, U)	
(Q, R)	
(Q, S)	
(U, T)	
(S, T)	

(b) (i) List **THREE** routes option from point U to R instead of the route mentioned.

U -> P -> Q -> R

=

(ii) State the shortest distance route from point U to R

Answer,   =

(c) If a line is drawn between point P to point T, and PUT forms a right-angled triangle with an angle of PUT is 90°. Find the length of point P to point T.

C   = $\sqrt{}$

    = $\sqrt{}$

    = $\sqrt{}$

Answer, =