(25 marks)

D

С

Question 5

ABCD is a rectangle.

 $F \in [AB], G \in [BC], [FD] \cap [AG] = \{E\}, \text{ and } FD \perp AG.$ |*AE*| = 12 cm, |*EG*| = 27 cm, and |*FE*| = 5 cm.





Α

12

Find |AD|. (b)



 $\triangle AFE$ and $\triangle AGB$ are similar. Show that |AB| = 36 cm. (c)



Find the area of the quadrilateral GCDE. (d)

