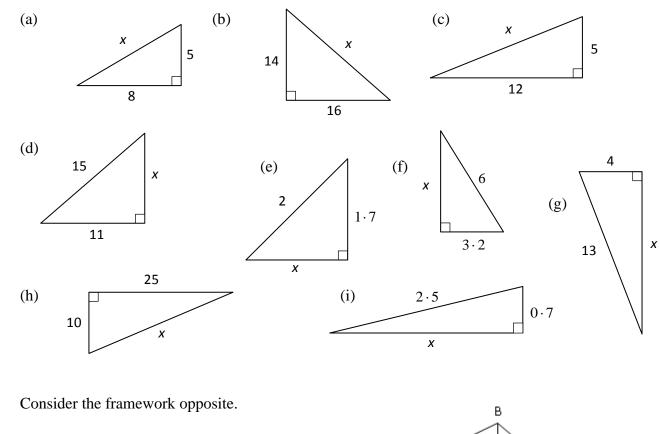
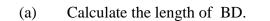
National 4 Mathematics: Homework 9

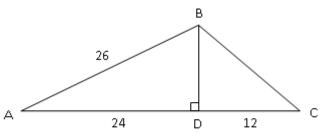
§1 Pythagoras

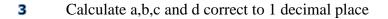
1 Calculate the length of the side marked *x* in each triangle below

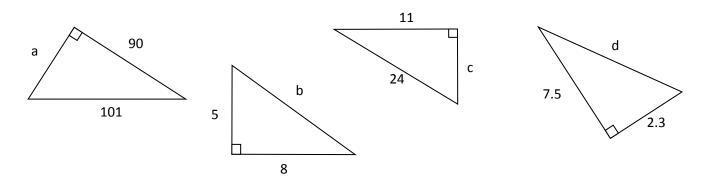




- (b) Hence calculate the length of BC.
- (c) Calculate the area of triangle ABC.





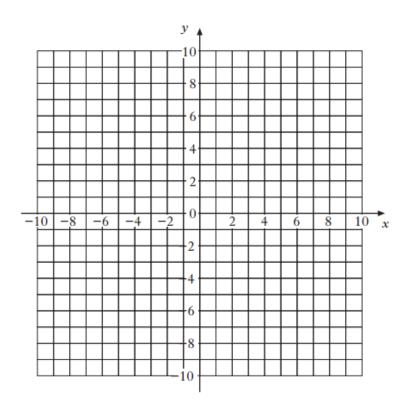


2

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§ 2 Straight lines

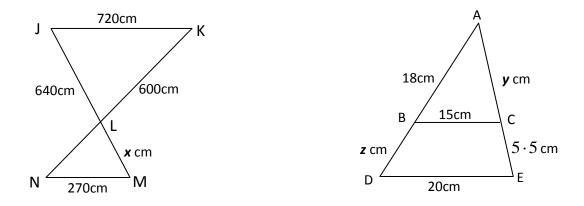
1 (a) On the grid below, plot the points P(-7, -3) and Q(5, 6).



(b) Find the gradient of line PQ.

§ 3 Mixed

1 Calculate the value of x, y and z in the diagrams below.



2 Tony is paid a basic monthly salary of £450 plus commission of 12% of his total monthly sales. Calculate his total earnings in a month where his sales total £9000.