5.19 SOHCAHTOA (Trigonometry): 10-minute Pack

EDEXCEL 1MA1 · Calculator allowed · about 10 minutes

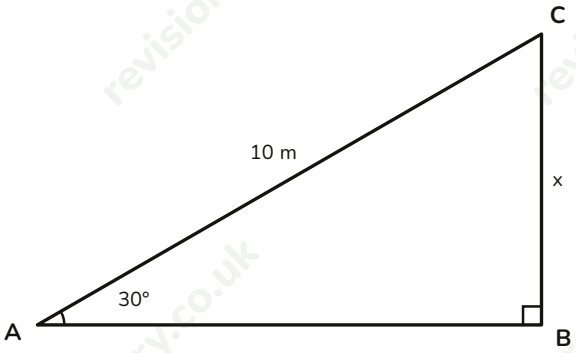
Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 In a right-angled triangle the hypotenuse is 10 m and the angle at A (not the right angle) is 30 degrees. Work out the length of the side opposite angle A. Give your answer to 1 decimal place.

Diagram NOT accurately drawn

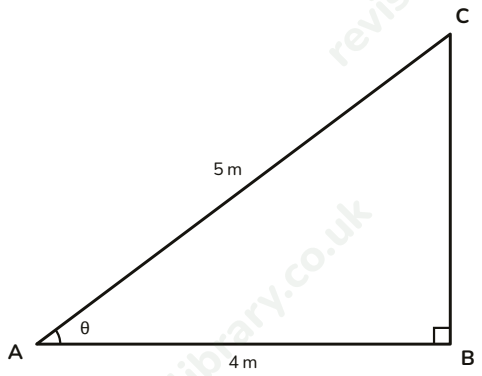


(Total for Question 1 is 3 marks)

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2 A right-angled triangle has adjacent = 4 m and hypotenuse = 5 m. Calculate cos(θ). Give your answer to 2 decimal places.

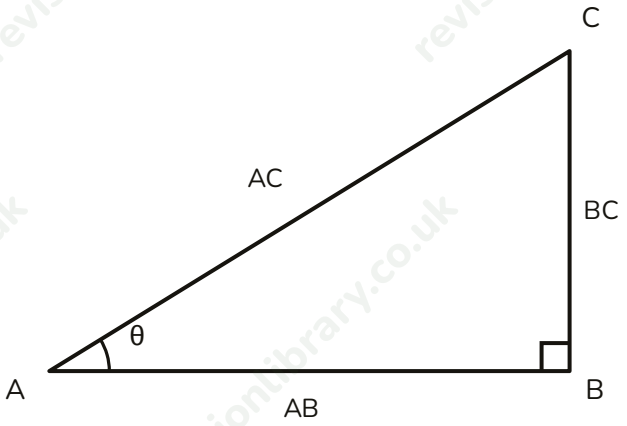
Diagram NOT accurately drawn



(Total for Question 2 is 2 marks)

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3 The diagram shows a right-angled triangle ABC, with the right angle at B and angle θ marked at vertex A.



(a) Write down the letter of the side that is the hypotenuse. **(1)**

.....

(b) Write down the letter of the side that is opposite angle θ. **(1)**

.....

(c) Write down the letter of the side that is adjacent to angle θ. **(1)**

.....

(Total for Question 3 is 3 marks)

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Mark scheme · 5.19 SOHCAHTOA (Trigonometry): 10-minute Pack

Question 1

identify sin(A) = opposite/hypotenuse so opposite = hypotenuse * sin30	**M1**
substitute: opposite = 10 * sin30 = 10 * 0.5	**M1**
5.0 m cao	**A1**

Answer: 5.0 m

Question 2

use cos = adjacent/hypotenuse, cos = 4/5 oe	**M1**
0.80 cao (to 2 dp as 0.80)	**A1**

Answer: 0.80

Question 3

(a) AC cao	**B1**

(a) Answer: AC

(b) BC cao	**B1**

(b) Answer: BC

(c) AB cao	**B1**

(c) Answer: AB

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