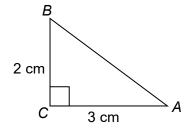


Topic Test 1 (20 minutes)

Introduction to trigonometry - Foundation

1 What is the value of tan A for this triangle?



Not drawn accurately

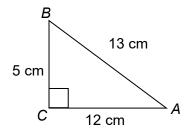
Circle your answer.

[1 mark]

$$\frac{2}{\sqrt{13}}$$

$$\frac{3}{\sqrt{13}}$$

2 What is the value of sin A for this triangle?



Not drawn accurately

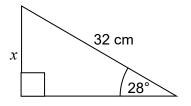
Circle your answer.

[1 mark]

3 (a)	Use your calculator to work out	25 cos 54°	
	Give your answer to 1 decimal place.		[1 mark]
	Answer		
3 (b)	Use your calculator to work out	15 tan 32 ∘	
	Give your answer to the nearest whole no	umber.	[1 mark]
	Answer		
3(c)	Use your calculator to work out	$\tan^{-1}\left(\frac{18}{35}\right)$	
	Give your answer to 1 decimal place		[1 mark]
	Answer		degrees

4 Triangles ABC and PQR are similar. Not drawn 2 cm 10 cm 1 cm accurately В Q 4 (a) Write down the size of angle BAC. [1 mark] degrees Answer _____ **4 (b)** Write down the size of angle *PRQ*. [1 mark] Answer ____ degrees 4 (c) Use Pythagoras' theorem to work out the length BC. Give your answer as an exact value. [2 marks] Answer cm 4 (d) Work out the length of QR. Give your answer as an exact value. [1 mark] Answer ____ cm

5



Not drawn accurately

Which of the following gives the length *x* in centimetres? Circle your answer.

[1 mark]

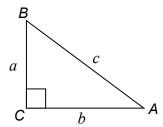
$$32 \times \sin 28^{\circ}$$

$$28 \times \sin 32^{\circ}$$

$$32 \times \cos 28^{\circ}$$

$$28 \times \cos 32^{\circ}$$

6 For this triangle, which of the following is **not** true?



Circle your answer.

[1 mark]

$$\tan A = \frac{b}{a}$$

$$\sin B = \frac{b}{c}$$

$$\sin A = \frac{a}{c}$$

$$\tan A = \frac{b}{a}$$
 $\sin B = \frac{b}{c}$ $\sin A = \frac{a}{c}$ $\cos A = \frac{b}{c}$

•	Work out the length p .	[2 marks]
	Not drawn accurately 20 cm	
	Answer Work out the length $\it q$.	cm
	Not drawn accurately 66°	[2 marks]

Answer

cm

9	Work out the length y. 26° 12 cm	Not drawn accurately	[2 marks]
10	Answer Work out the size of angle x. 13 cm 20 cm	Not drawn accurately	cm
	Answer		degrees