Name:

Exam Style Questions

Trigonometry: Exact Values

Corbettmaths

Equipment needed: Pen

Guidance

1. Read each question carefully before you begin answering it.
2. Check your answers seem right.
3. Always show your workings

Video Tutorial

www.corbettmaths.com/contents

Video 341

Answers and Video Solutions

1. Write down the exact value of Sin 0°

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(1)

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2. Write down the exact value of Cos 60°

.....

(1)

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3. Write down the exact value of Sin 30°

.....

(1)

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4. Write down the exact value of Tan 0°

.....

(1)

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5. Write down the exact value of Tan 45°

.....

(1)

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6. Write down the exact value of Cos 90°

.....

(1)

7. Write down the exact value of Sin 90°

.....

(1)

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8. Write down the exact value of Sin 60°

.....

(1)

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9. Write down the exact value of Cos 45°

.....

(1)

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10. Write down the exact value of Sin 45°

.....

(1)

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11. Write down the exact value of Tan 30°

.....

(1)

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12. Write down the exact value of Tan 60°

.....

(1)

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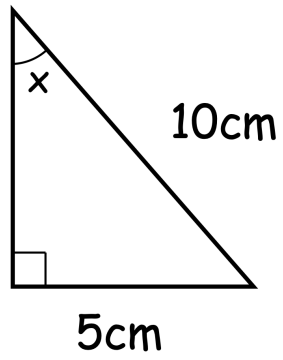
13. Write down the exact value of Cos 30°

.....

(1)

14. Shown below is a right angled triangle.

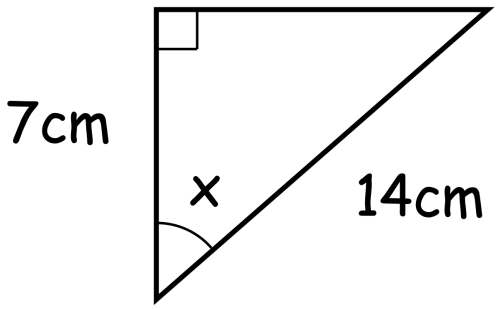


Use trigonometry to work out the size of angle x.

.....°

(2)

15. Shown below is a right angled triangle.

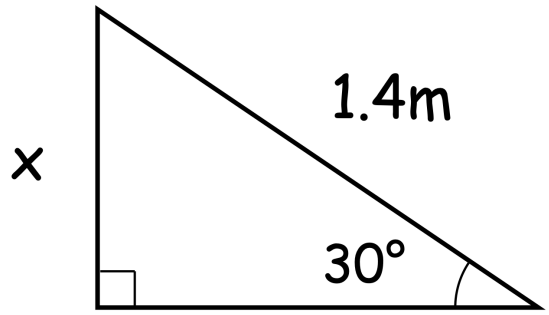


Work out the size of angle x.

.....°

(2)

16. Shown below is a right angled triangle.



Use trigonometry to work out the value of x.

.....m

(3)

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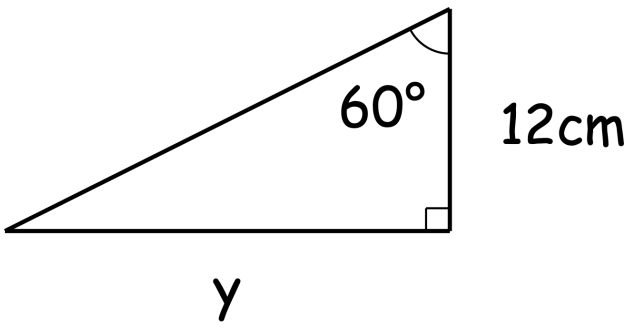
17. Shown below is a right angled triangle.

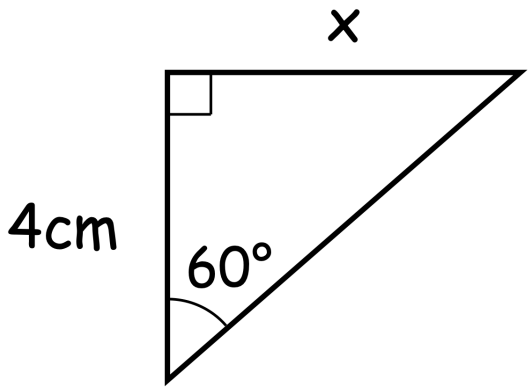


Use trigonometry to work out the exact value of y

.....cm

(3)

18. Shown below is a right angled triangle.



Use trigonometry to work out the exact value of x

.....cm

(3)

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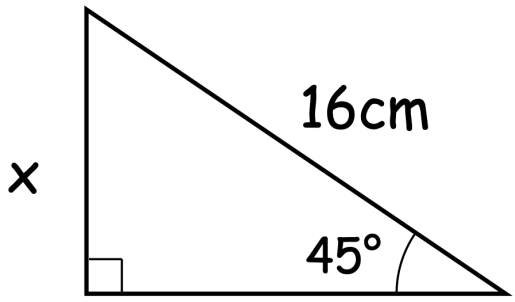
19. Shown below is a right angled triangle.

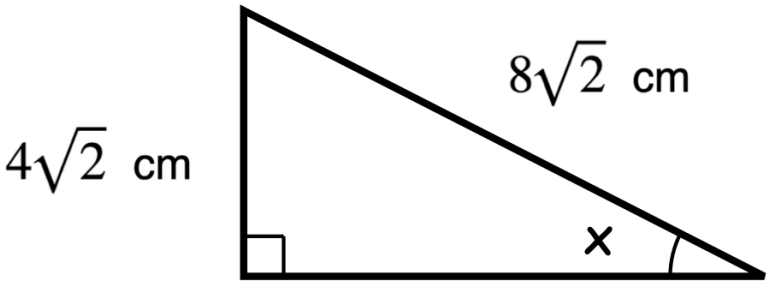


Use trigonometry to work out the exact value of x

.....cm

(3)

20. Below is a right angled triangle.



Show that angle x = 30°
Include all your working.

(3)

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21. Find the exact value of $sin60° \times cos30°$

Give your answer in its simplest form.

.....

(2)

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22. Find the exact value of $tan30° \div tan60°$

Give your answer in its simplest form.

.....

(2)

23. Find the exact value of $12\ tan60° \times sin60° \times 4\ cos60°$

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(3)

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24. Find the exact value of $\sin 45° + \cos 30°$

.....

(3)

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25. Find the exact value of $15\ tan30° - 4\ sin60°$

.....

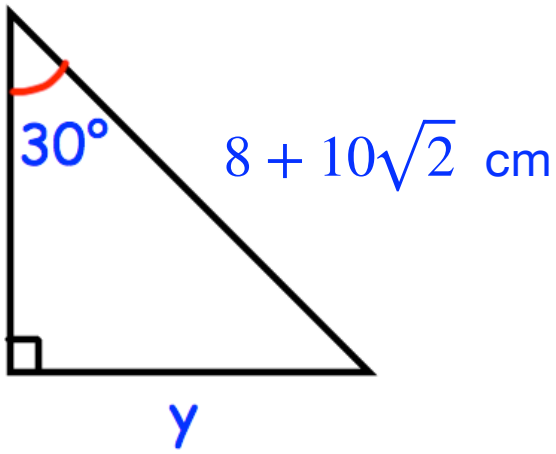
(3)

26. Show $\frac{cos60° - sin45°}{tan60°}$ can be written as $\frac{\sqrt{a} - \sqrt{b}}{c}$

where a, b and c are integers.

(4)

27. Shown below is a right angled triangle.

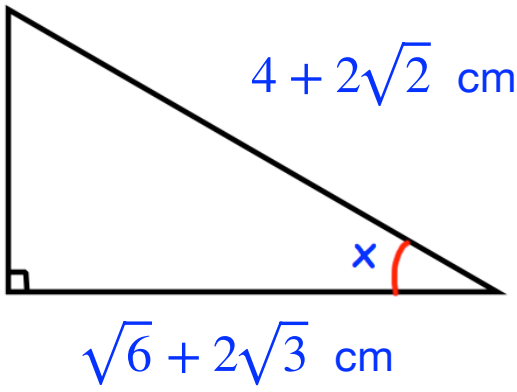


Find the exact length of the side labelled y.

.....cm

(4)

28. Below is a right angled triangle.



Show that angle x = 30°
Include all your working.

(4)