

MRT

**GRADE 11 ESSENTIAL
UNIT G – TRIGONOMETRY
PRACTICE QUESTIONS**

Name: _____

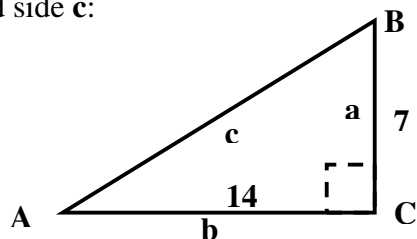
You may use your course Reference Notes and a calculator.

Show work for best marks

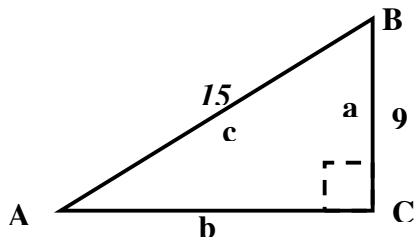
Round lengths to two decimal places and angles to one decimal place.

Diagrams are not necessarily drawn to scale, use the dimensions given!

1. Find side c :



2. Find side b .



- 3.

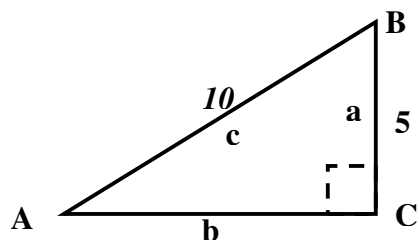
Find:

a. $\sin(A)$

b. $\cos(A)$

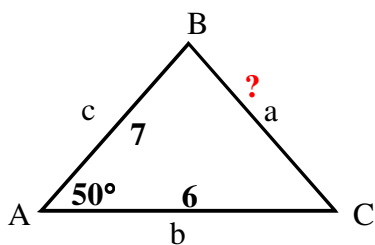
c. $\tan(B)$

d. the measure of angle B ($m\angle B$):

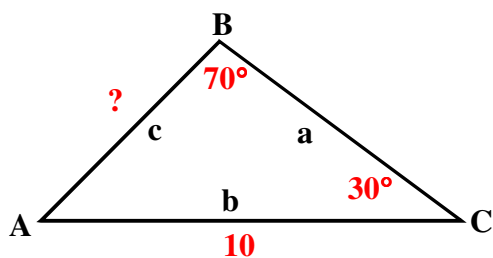


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4. Find side a :

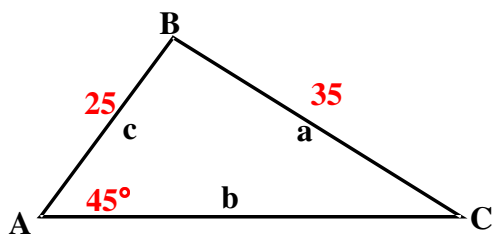


5. Find side c :



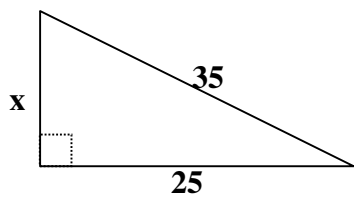
6. What angle has a cosine of 0.691 ?

7. **Bonus Question.** Find the missing measures of angle C , side b , and angle B .

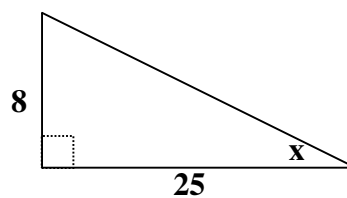


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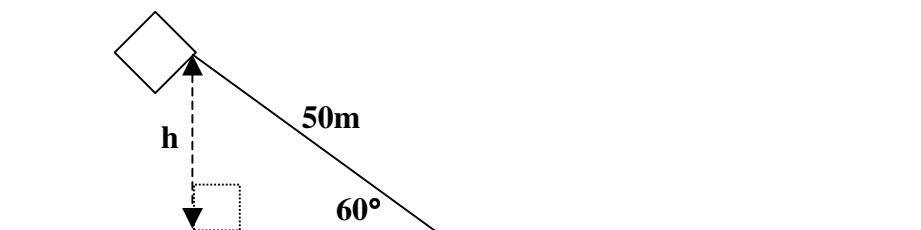
8. Find the value of side x .



9. Find the value of angle x .

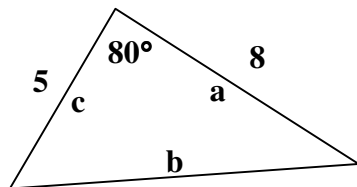


10. Kyle is flying a kite. The string is **50 metres** long. The string makes an angle of **60°** with the flat ground. What is the vertical height, h , of the kite above ground?

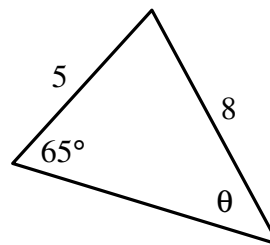


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11. Find the value of side b.



12. Find the value of angle θ .



BONUS QUESTION (for 2 extra marks if needed)

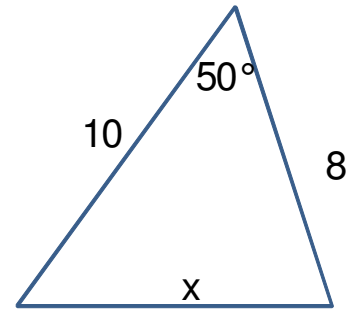
Solve the following equation for the unknown 'x':

$$\frac{2}{3}x + 4 = 7$$

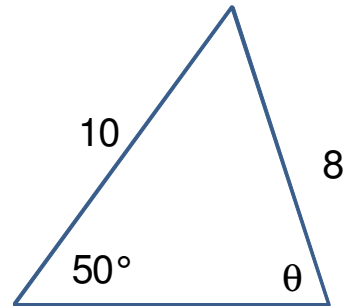
Mr T

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13. Find the measure of length x



14. Find the measure of angle θ



15. Solve for the remaining three parts of the triangle.

