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19 August 2021

1. $3x - 21 = -33$

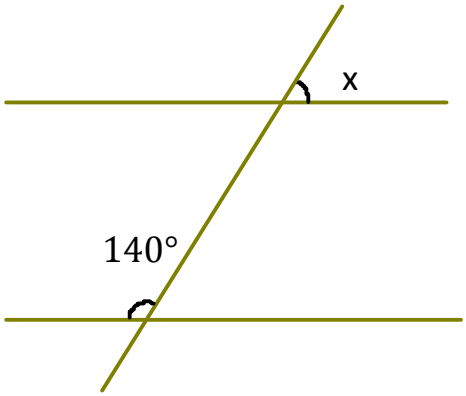
2. $\frac{4}{17}y = \frac{3}{34}$

3. Find the product using suitable properties :
   a. $26 \times (-48) + (-48) \times (-36)$
   b. $8 \times 53 \times (-125)$

4. $512 \div 0.2 =$

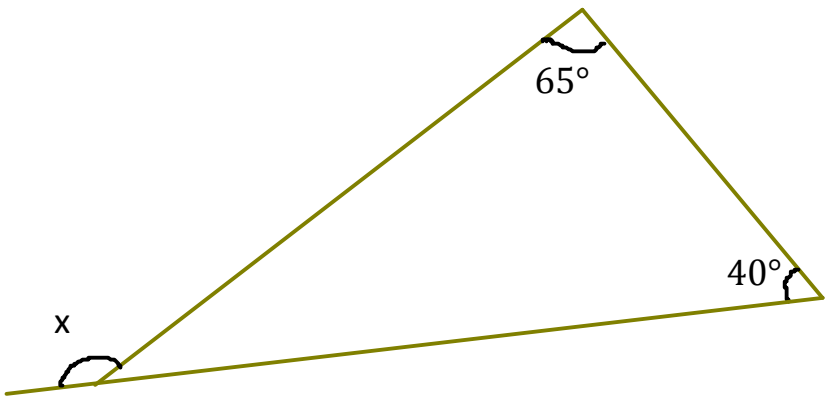
5. $144 \div 1.2 =$

6. Find x :

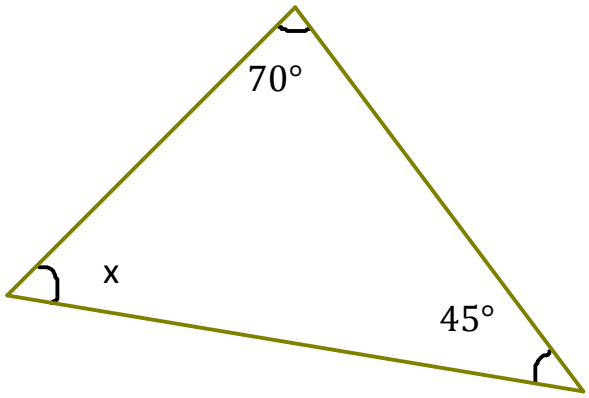


7. Find the length of the third side of a right-angled triangle if the length of the other two sides are $12cm$ and $5cm$

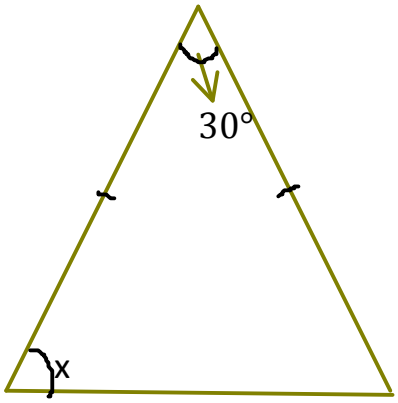
8. Find x using appropriate property of triangle :



9. Find the measure of the third angle .



10. Given triangle is an $isosceles$ triangle . Find x .



11. Are these triangles possible ?
    a. 2cm , 4 cm , 10 cm
    b. 3cm , 9cm , 7cm
    c. 12cm , 24cm , 10cm

12. A tree is broken at a height of 5m from the ground and its top touches the ground at a distance of 12m from the base of the tree. Find the original height of the tree.

13. What is the mode of the following data ?
    2, 34, 66, 7, 7, 45, 34, 12, 56, 678, 34 , 2

14. Find the mean of the following :
    12 , 30 , 28 , 16, 14

15. Find the median :

11 , 24 , 86 , 23, 90