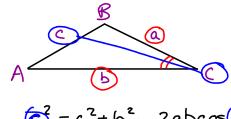
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## The CosiNE LAW

We use the cosine Law in NON-Rt X D's when we know:

2 sides & the contained &

OR all three sides



$$C^2 = a^2 + b^2 - 2abcosC$$

$$\frac{18}{18}$$

$$x^{2} = 10^{2} + 18^{2} - 2(10)(18) \cdot \cos 38$$

$$x = 11.84$$

$$|4|^{2} = |2.2^{2} + |9^{2}(2.(12.)(19)) \cos C$$

$$|4|^{2} - |2.2^{2} - |9^{2}| = -2(17.2)(19) \cos C$$

$$|4|^{2} - |2.2^{2} - |9^{2}| = -2(17.2)(19) \cos C$$

$$-\frac{3}{13.84} = -\frac{4}{163.6} \cos C$$

$$-\frac{3}{163.6} - \frac{4}{163.6} \cos C$$

$$-\frac{3}{163.6} \cos C$$

$$-\frac{3}{163.6} \cos C$$

$$-\frac{3}{163.6} \cos C$$

$$-\frac{3}{163.6} \cos C$$

a2 + b2 - 2.a.b. cosC

$$C^2 = a^2 + b^2 - 2ab \cos C$$

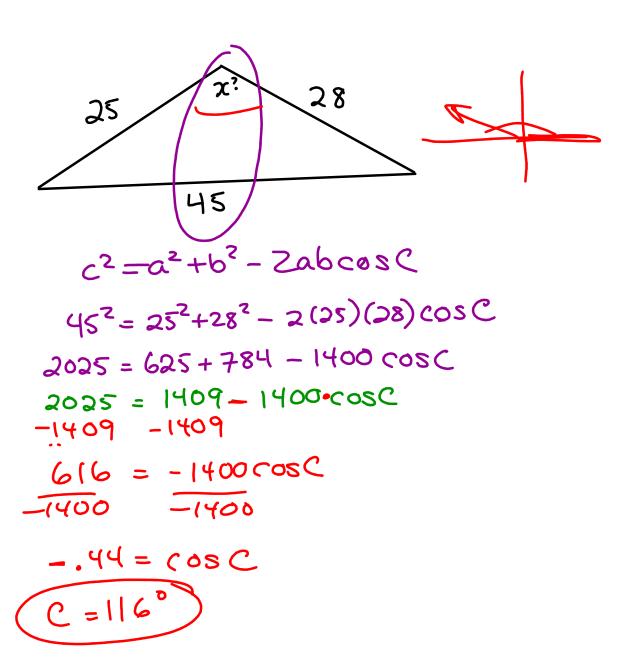
$$\frac{C^2 - a^2 - b^2}{-2ab} = \frac{-2ab\cos C}{-2ab}$$

$$\cos C = \frac{c^2 - a^2 - b^2}{-2ab}$$

$$\cos C = \frac{a^2 + b^2 - c^2}{2ab}$$

$$\cos C = \frac{a^2 + b^2 - c^2}{2ab}$$

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- 1) Sine Law WIS -> get r'done
- 2) Cosine Law W/S
- 3 Do Seetions 2.3 = 2.4

  from your Blue Sheet

  AND the text book Review