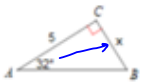
Find the measure of each side indicated. Round to the nearest tenth.

2)

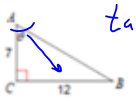


$\tan 32 = \frac{x}{5}$

$x = 5\tan 32 = 3.1$

Find the measure of each angle indicated. Round to the nearest tenth.

3)

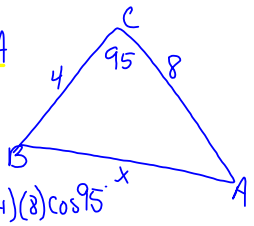


$\tan^{-1}(12/7)$

$A = 59.7°$

5.4 Law of Cosines

$a^2 = b^2 + c^2 - 2bc\cos A$

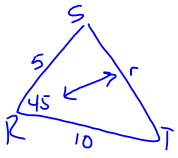


$x^2 = 4^2 + 8^2 - 2(4)(8)\cos 95$

$x = 9.3$

ΔRST $t = 5$ $s = 10$ $m\angle R = 45°$

Find r.

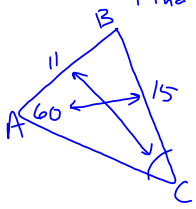


$r^2 = 5^2 + 10^2 - 2\cdot 5\cdot 10\cos 45$

$r = 7.4$

ΔABC $m\angle A = 60°$ $c = 11$ ft. $a = 15$ ft.

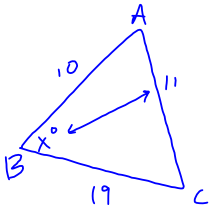
Find $m\angle C$



$\frac{\sin C}{11} = \frac{\sin 60}{15}$

$\sin C = \frac{11\sin 60}{15}$

$C = 39.4°$



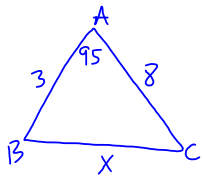
$11^2 = 10^2 + 19^2 - 2\cdot 10\cdot 19\cos X$

$121 = 100 + 361 - 380\cos x$

$-340 = -380\cos x$

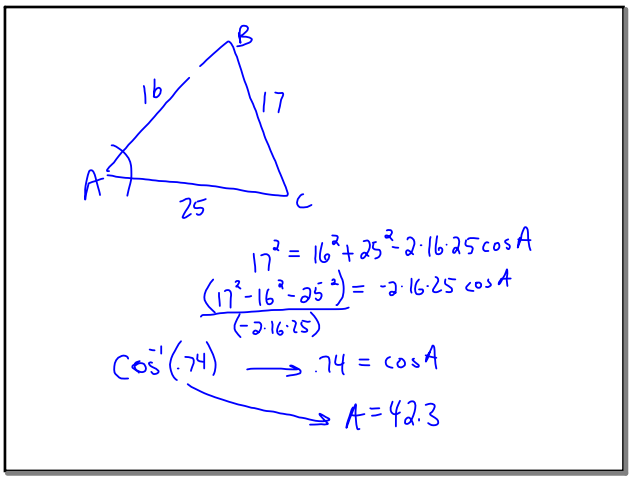
$.894\ldots = \cos x$

$X = 26.5°$



$x^2 = 3^2 + 8^2 - 2\cdot 3\cdot 8\cos 95$

$X = 8.8$



$17^2 = 16^2 + 25^2 - 2 \cdot 16 \cdot 25 \cos A$

$\frac{(17^2 - 16^2 - 25^2)}{(-2 \cdot 16 \cdot 25)} = \cos A$

$\cos^{-1}(.74) \longrightarrow .74 = \cos A$

$A = 42.3$