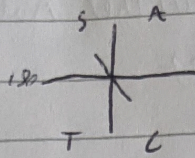


iii $\tan x = -0.22$

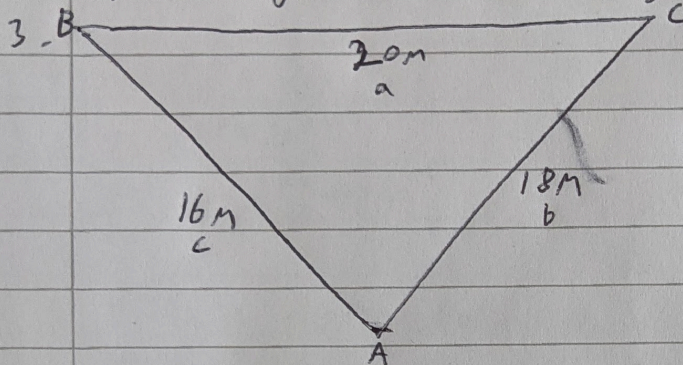
$$x = \tan^{-1}(0.22) \rightarrow 12.41^\circ$$

$$x = 180^\circ - 12.41^\circ = 167.59^\circ$$

$$x = 360^\circ - 12.41^\circ = 347.59^\circ$$



Find angle A of the following triangle



$$20^2 = 18^2 + 16^2 - 2(18)(16)\cos A$$

$$400 = 324 + 256 - 576\cos A$$

$$-180 = -576\cos A$$

$$\frac{-180}{576} = \cos A$$

$$-0.31 = \cos A$$

$$A = \cos^{-1}(-0.31)$$

$$\hat{A} = 108.06^\circ$$

Transpose the following to get [x]

4. $P = \sqrt{\frac{xy}{T}} + 3$

$$P^2 = \frac{xy}{T} + 3^2$$

$$P^2 T = xy + 3^2 T$$

$$P^2 T - 3^2 T = xy$$

$$P^2 T - 9T = xy \quad \text{This is a q}$$

$$\frac{P^2 T - 9T}{y} = x$$

Solve the following equations for x

5. $5^{x+2} = 2^x$

$$\log 5^{x+2} = \log 2^x$$

$$(x+2)\log 5 = x\log 2$$

$$(x+2)0.70 = x0.30$$

$$x0.70 + 1.4 = x0.30$$

$$1.4 = x0.30 - x0.70$$

$$1.4 = -0.4x$$

$$\frac{1.4}{-0.4} = x$$

$$x = -3.5$$