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Solve the following trigonometric equation for $0^\circ \leq x \leq 360^\circ$

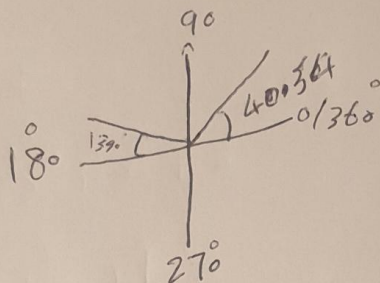
(i) $\sin x = 0.63$

$\sin^{-1}(0.63)$

$x = 40.54$

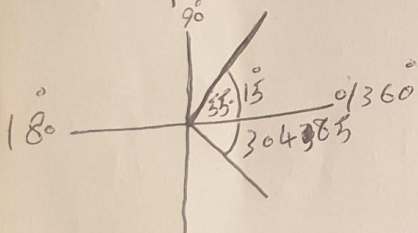
$180 - 40.54$

$x = 139.46$



(ii) $7 \cos x = 4$

$\cos^{-1}\left(\frac{4}{7}\right) = 55.15$



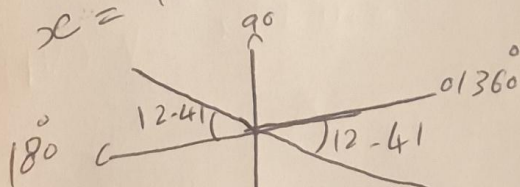
$x = 360 - 55.15 = 304.85$

$(55.15, 304.85)$

(iii) $\tan x = -0.22$

$\tan^{-1}(-0.22)$

$x = 12.41$ No an Answer

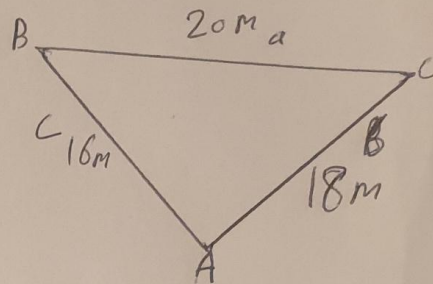


$x = 180 - 12.41 = 167.59$

$x = 360 - 12.41 = 347.59$

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Find the angle at A



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

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

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

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

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

$0.3125 = \cos A$

$\cos^{-1}(0.3125)$

$A = 71.79^\circ$