Trigonometry Worksheet - Answers

## **Exercise C**

$$O(a)$$
  $4(a)^2 O = 1$   $0 \le O \le 360$ 

 $\cos\theta = \frac{1}{2}$  or  $\cos\theta = -\frac{1}{2}$ 

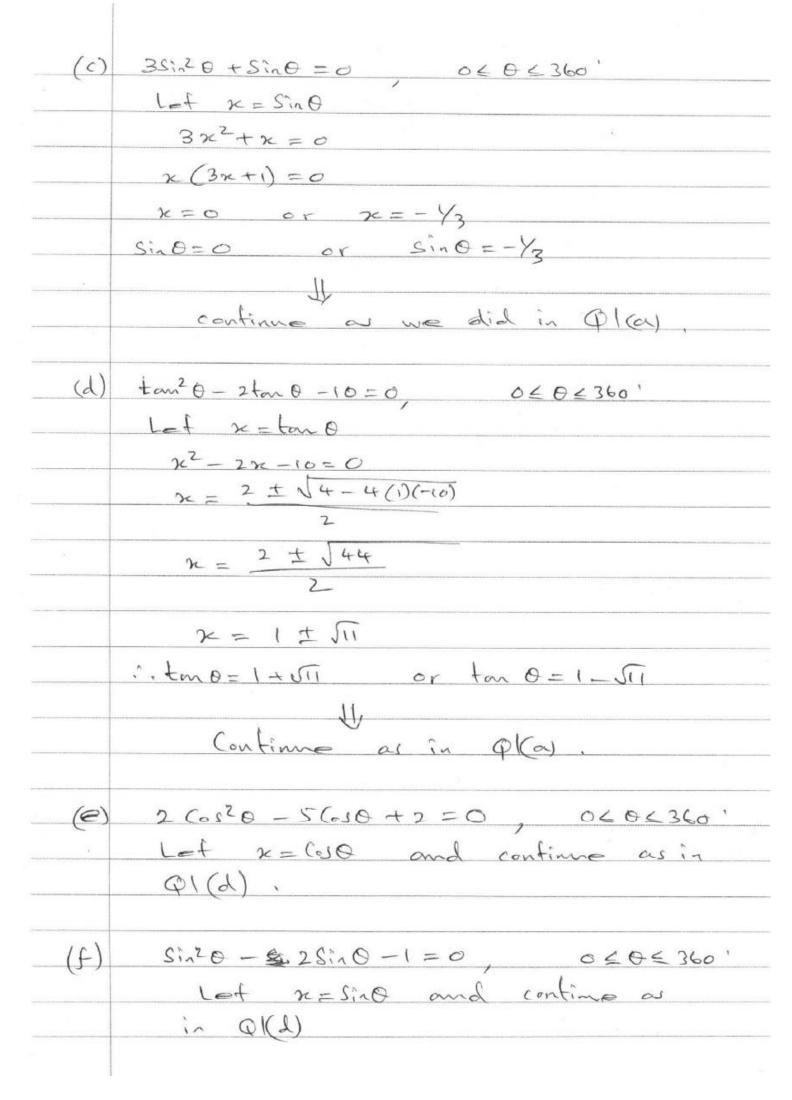
$$\theta = (cs^{-1}(\frac{1}{2}))$$
 $\theta = (cs^{-1}(-\frac{1}{2}))$ 
 $\theta = (60^{-1}(\frac{1}{2}))$ 
 $\theta = (60^{-1}(\frac{1}{2}))$ 
 $\theta = (120^{-1}(\frac{1}{2}))$ 
 $\theta = (120^{-1}(\frac{1}{2}))$ 

 $\Theta = 60^{\circ}, 300^{\circ}$  or  $\Theta = 120^{\circ}, 240^{\circ}$ 

.. Te=60, 120, 240 or 300'

Sind - 15 or Sind = - 15

Continue ces = we did in Q1(a).



(9)	tm220=3 0<0<360'
	tan 20 = ± 53
	ton 20 = 53 or - 53
	Range of 20:
	0 ≤ 0 ≤ 360'
	0 ≤ 20 ≤ 720'
	ton 20 = 53 01 ton 20 = -53
	$20 = 60^{\circ}$ , (180 + 60°) or $20 = -60^{\circ}$ , (180 + -60°)  A  1
	$20 = 60^{\circ}$ , $240^{\circ}$ or $20 = -60^{\circ}$ , $120^{\circ}$ $+360^{\circ}$ $+360^{\circ}$ $+360^{\circ}$ $+360^{\circ}$
	420° 600° 480° 480° 660°
	: 20 = 60, 240, 420, 600, 120, 300, 660 or 480
	: 0 = 30, 120, 210, 300, 60, 150, 330 or 240
(h)	45in0 = tomo, 0 < 0 < 360.
	COO * * *
	4Siz O Coso = Sino (Do not divide) 4Siz O Coso = Sino (Do not divide) by Sino Loth Sides
	Sino (4610-1)=0
	Sin0 =0 Or (050 = 1
	Continue
	Continue,

