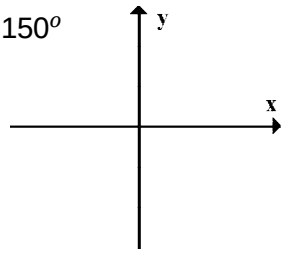
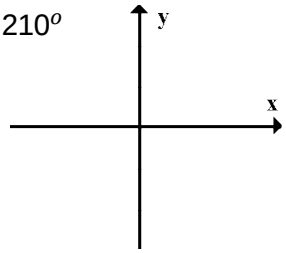
C11 - 2.1 - $Sketch, Find\ \theta_r, \theta_{stp}\ HW$

Sketch θ_{stp}.

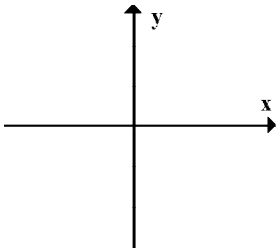
150^o



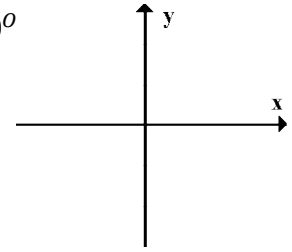
210^o



-75^o

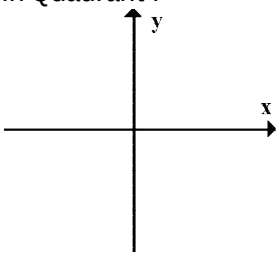


350^O

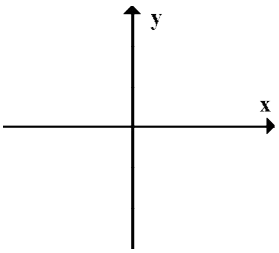


Sketch θ_r

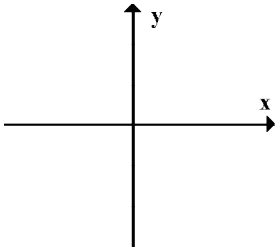
30^o In Quadrant I



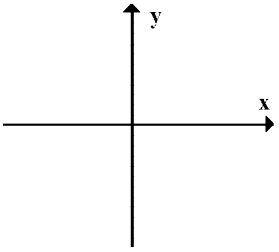
70^O In Quadrant II



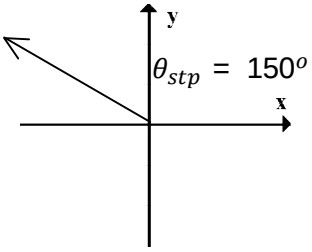
20^o In Quadrant III

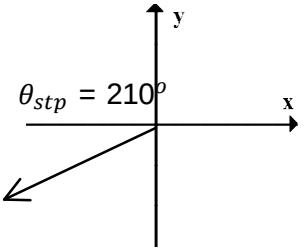


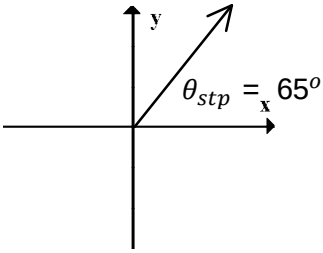
45^o In Quadrant IV

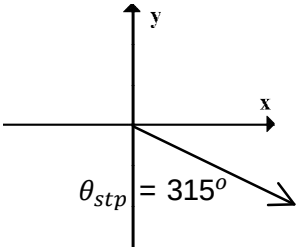


Find θ_r for each θ_{stp}

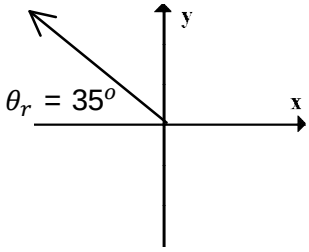


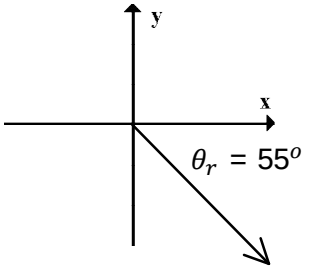


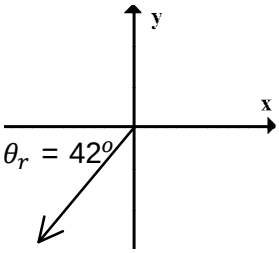


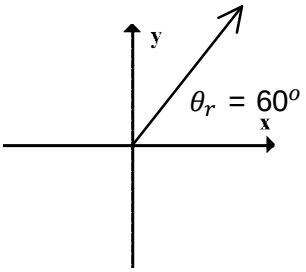


Find θ_{stp} for each θ_r



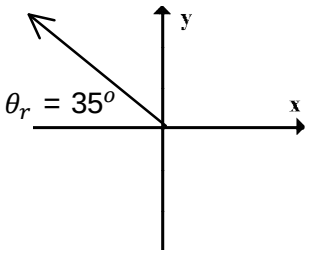


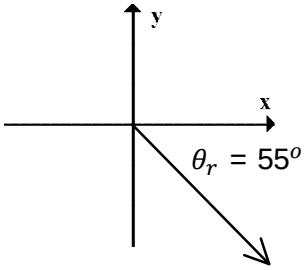


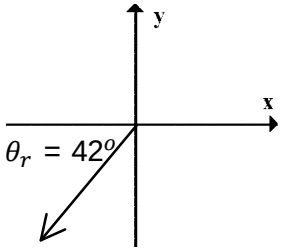


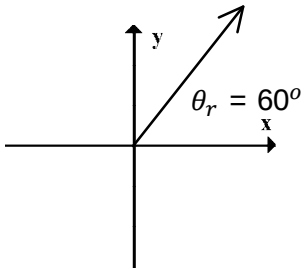
C11 - 2.1 - $Sketch, Find\ -\theta_{stp}, \theta_{cot}\ HW$

Find a negative θ_{stp} for each θ_r

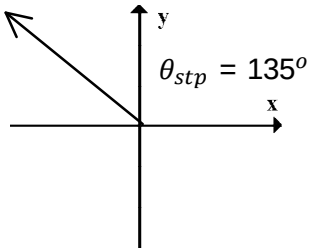


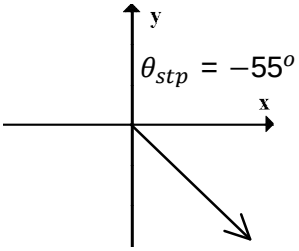


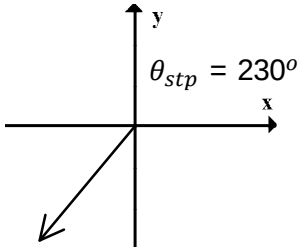


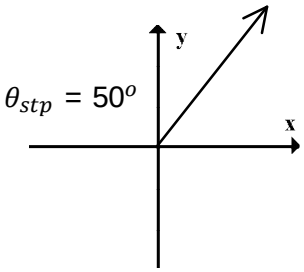


Find a positive and negative θ_{cot} for each θ_{stp}





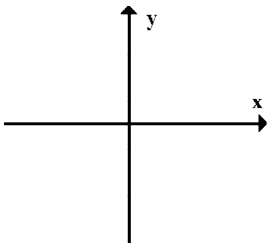




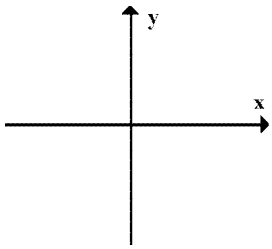
C11 - 2.2 - ASTC + / –

Draw 2 triangles in the quadrants for the following statements

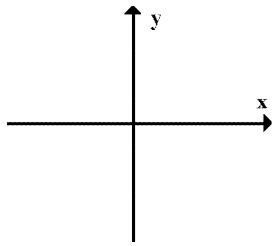
$\cos\theta > 0$



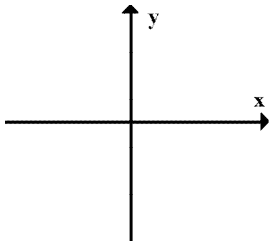
$\tan\theta > 0$



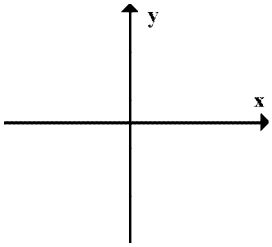
$\sin\theta > 0$



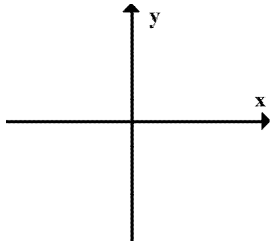
$\cos\theta < 0$



$\tan\theta < 0$

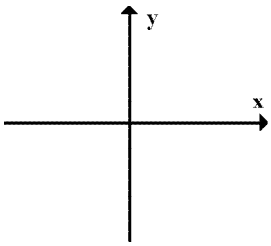


$\sin\theta < 0$

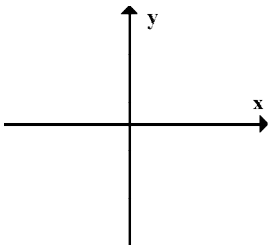


Draw a triangle in the quadrant for following statements

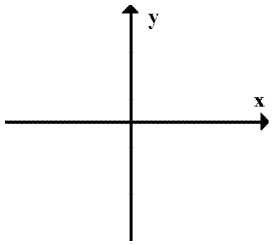
$\cos\theta > 0$ *and* $\sin\theta < 0$



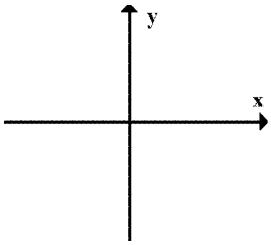
$\cos\theta < 0$ *and* $\tan\theta > 0$



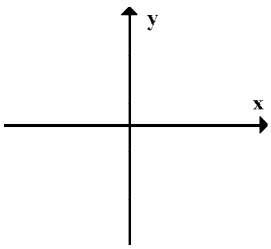
$tan\theta > 0$ *and* $\sin\theta > 0$



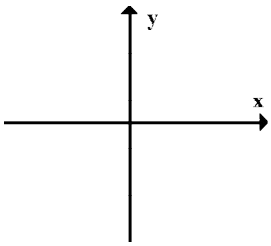
$\cos\theta < 0$ *and* $\sin\theta < 0$



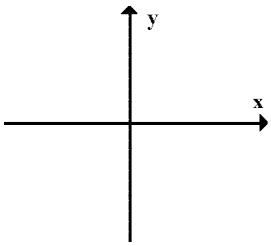
$\cos\theta < 0$ *and* $\tan\theta < 0$



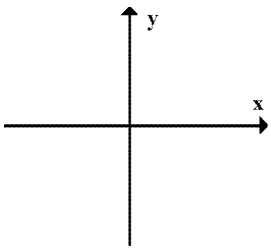
$tan\theta < 0$ *and* $\sin\theta > 0$



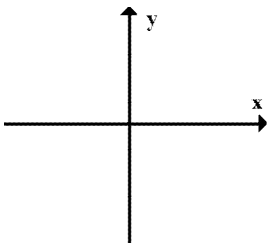
$\cos\theta < 0$ *and* $\sin\theta > 0$



$\cos\theta > 0$ *and* $\tan\theta < 0$



$tan\theta < 0$ *and* $\sin\theta < 0$

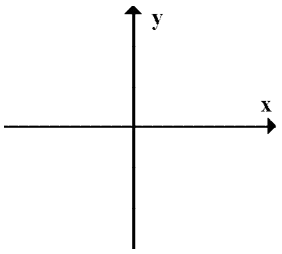


C11 - 2.3 - ASTC Trig Ratios HW

SOH CAH TOA

Find sinx, cox, and tanx for the following points. And θ_{stp}

(4,3)



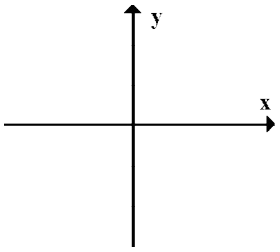
$sinx =$

$cosx =$

$tanx =$

$\theta_{stp} =$

(−3,4)



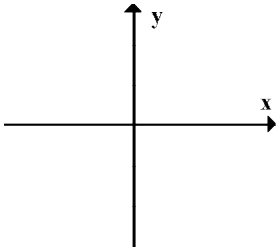
$sinx =$

$cosx =$

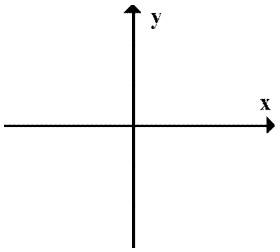
$tanx =$

$\theta_{stp} =$

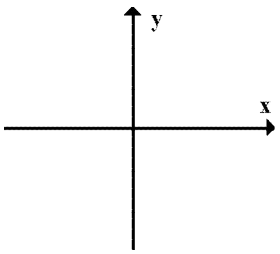
(−3, −4)



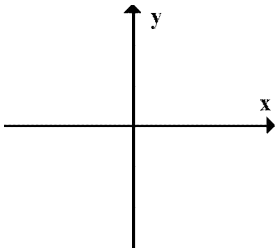
(−5,12)



(2,3)



(5, −6)

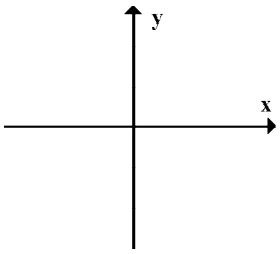


C11 - 2.3 - ASTC Trig Ratios HW

SOH CAH TOA

Find sinx, cox, and tanx for the following points. And θ_{stp}

(1,1)



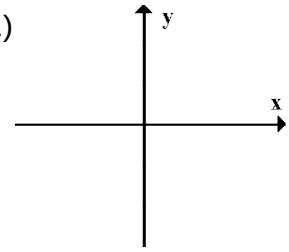
$sinx =$

$cosx =$

$tanx =$

$\theta_{stp} =$

$(-\sqrt{3}, 1)$



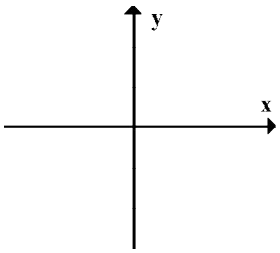
$sinx =$

$cosx =$

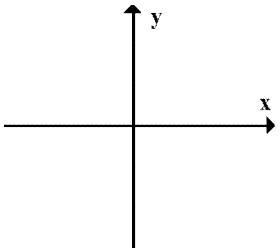
$tanx =$

$\theta_{stp} =$

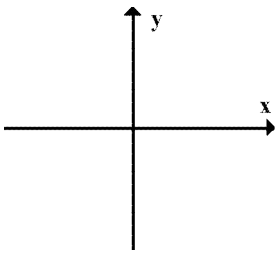
$(-1, \sqrt{3})$



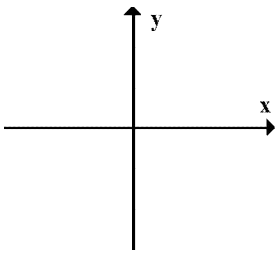
$(-1,1)$



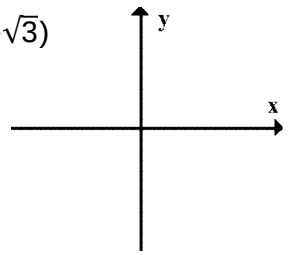
$(1, -\frac{1}{\sqrt{3}})$



$(-2\sqrt{3}, -2)$



$(-3\sqrt{3}, -\sqrt{3})$

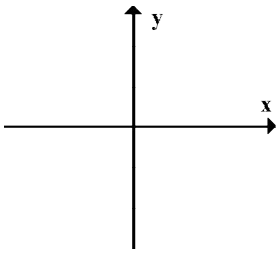


C11 - 2.3 - ASTC Trig Ratios HW

SOH CAH TOA

Find sinx, cox, and tanx for the following points. And θ_{stp}

(−2,5)



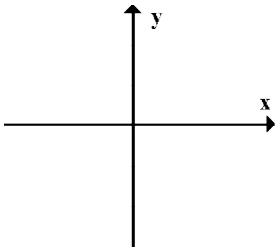
$sinx =$

$cosx =$

$tanx =$

$\theta_{stp} =$

(3, −3)



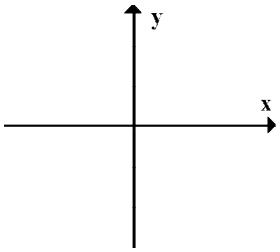
$sinx =$

$cosx =$

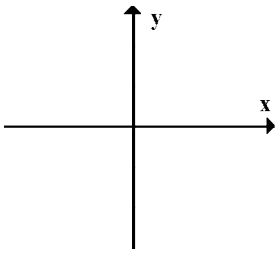
$tanx =$

$\theta_{stp} =$

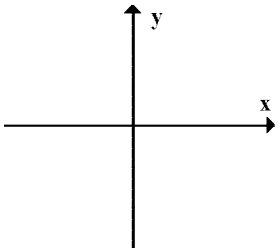
(−5, −7)



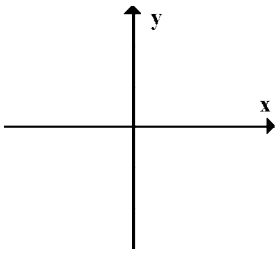
(−3,8)



(4,2)



(7, −1)

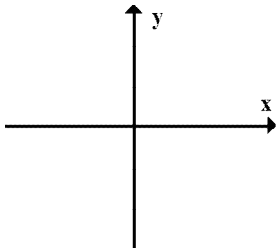


C11 - 2.4 - ASTC Trig Ratios HW

SOH CAH TOA

Find sinx, cox, and tanx for the following points. And θ_{stp}

(0,1)



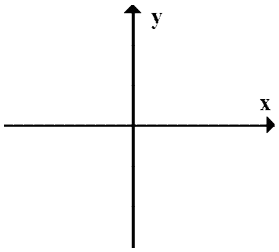
$sinx =$

$cosx =$

$tanx =$

$\theta_{stp} =$

(−1,0)



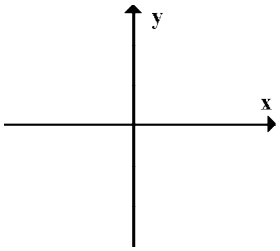
$sinx =$

$cosx =$

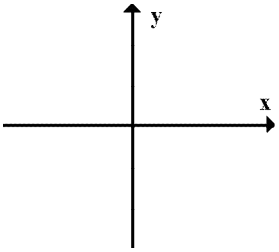
$tanx =$

$\theta_{stp} =$

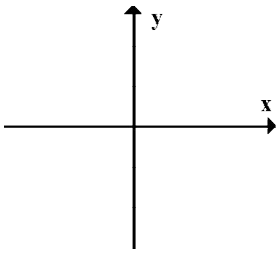
(1,0)



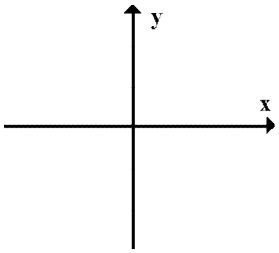
(0, −1)



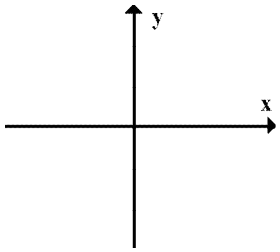
(0,2)



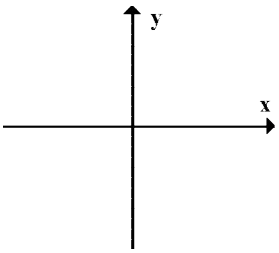
(0, −3)



(4,0)

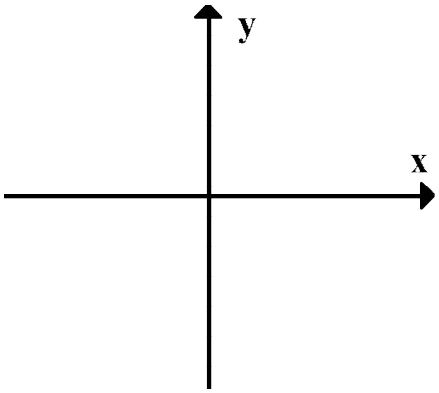


(0, −5)



C11 - 2.3/4 - Exact Value Trig Ratios HW

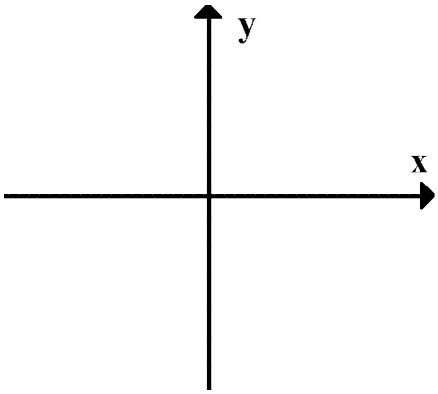
Solve using the Special Triangles and ASTC and the Unit Circle



$sin30 =$ $sin150 =$ $sin210 =$ $sin330 =$

$cos30 =$ $cos150 =$ $cos210 =$ $cos330 =$

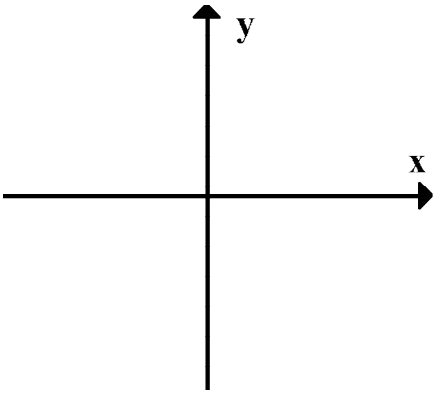
$tan30 =$ $tan150 =$ $tan210 =$ $tan330 =$



$sin60 =$ $sin120 =$ $sin240 =$ $sin300 =$

$cos60 =$ $cos120 =$ $cos240 =$ $cos300 =$

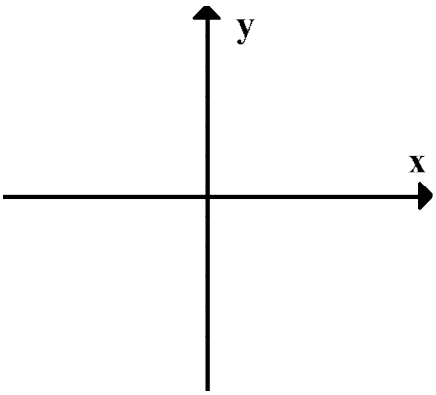
$tan60 =$ $tan120 =$ $tan240 =$ $tan300 =$



$sin45 =$ $sin135 =$ $sin225 =$ $sin315 =$

$cos45 =$ $cos135 =$ $cos225 =$ $cos315 =$

$tan45 =$ $tan135 =$ $tan225 =$ $tan315 =$



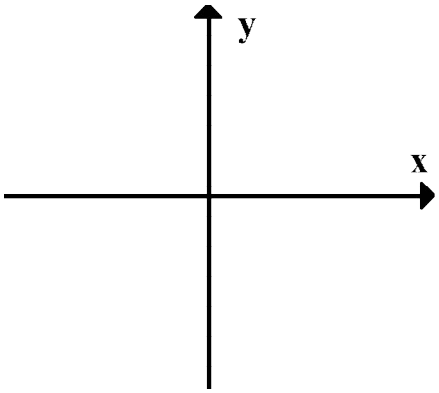
$sin0 =$ $sin90 =$ $sin180 =$ $sin270 =$ $sin360 =$

$cos0 =$ $cos90 =$ $cos180 =$ $cos270 =$ $cos360 =$

$tan0 =$ $tan90 =$ $tan180 =$ $tan270 =$ $tan360 =$

C11 - 2.3/4 - Exact Value Trig Ratios HW

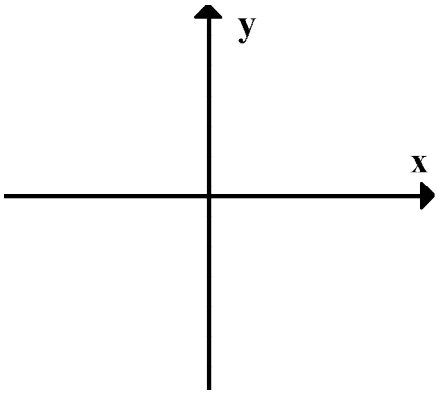
Solve using the Special Triangles and ASTC and the Unit Circle



$sin390 =$ $sin510 =$ $sin570 =$ $sin690 =$

$cos390 =$ $cos510 =$ $cos570 =$ $cos690 =$

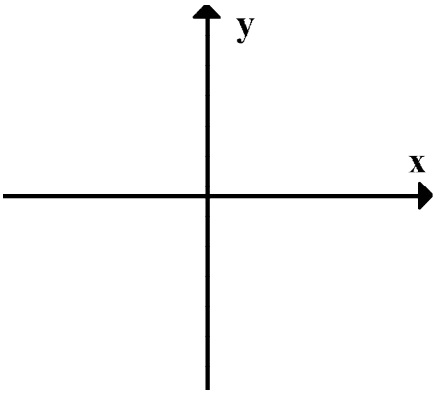
$tan390 =$ $tan510 =$ $tan570 =$ $tan690 =$



$sin420 =$ $sin480 =$ $sin600 =$ $sin660 =$

$cos420 =$ $cos480 =$ $cos600 =$ $cos660 =$

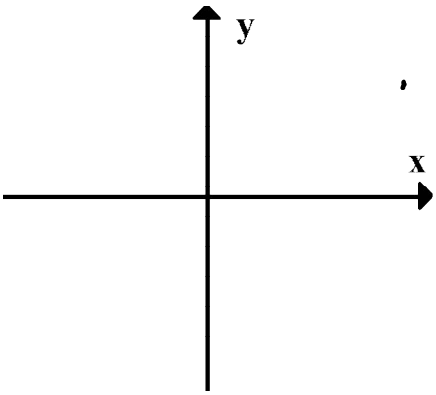
$tan420 =$ $tan480 =$ $tan600 =$ $tan660 =$



$sin405 =$ $sin495 =$ $sin585 =$ $sin675 =$

$cos405 =$ $cos495 =$ $cos585 =$ $cos675 =$

$tan405 =$ $tan495 =$ $tan585 =$ $tan675 =$



$sin360 =$ $sin450 =$ $sin540 =$ $sin630 =$ $sin720 =$

$cos360 =$ $cos450 =$ $cos540 =$ $cos630 =$ $cos720 =$

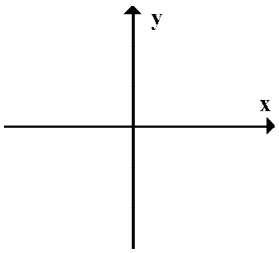
$tan360 =$ $tan450 =$ $tan540 =$ $tan630 =$ $tan720 =$

C11 - 2.3 - Special Trig Equations HW

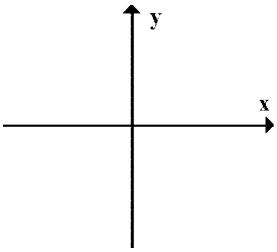
April 20, 2015 9:04 PM

Solve for $x, 0 \leq x < 360$, *answer should say* $x =$

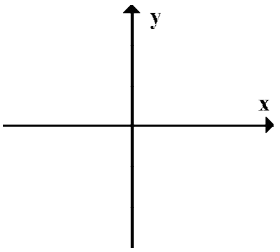
$sinx = \frac{1}{2}$



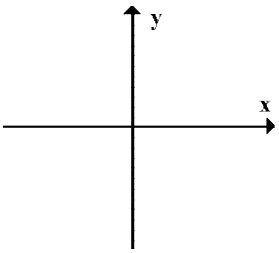
$cosx = \frac{1}{\sqrt{2}}$



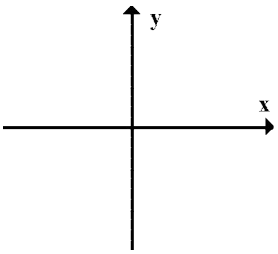
$cosx = \frac{1}{2}$



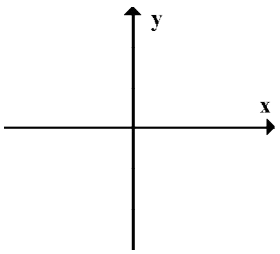
$tanx = 1$



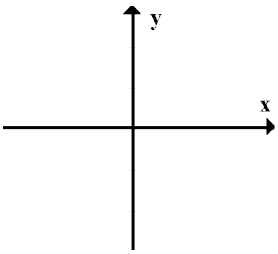
$sinx = \frac{1}{\sqrt{2}}$



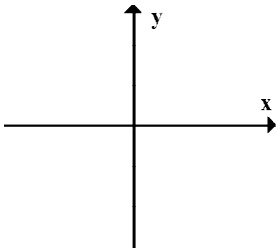
$sinx = \frac{\sqrt{3}}{2}$



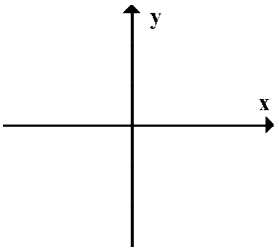
$cosx = \frac{\sqrt{3}}{2}$



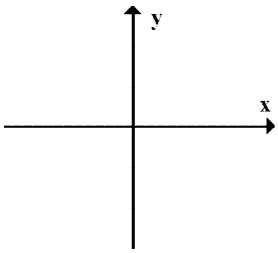
$tanx = \frac{1}{\sqrt{3}}$



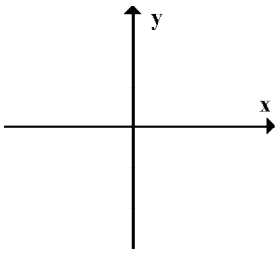
$tanx = \sqrt{3}$



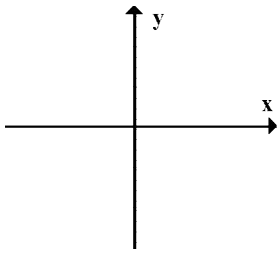
$sinx = -\frac{1}{2}$



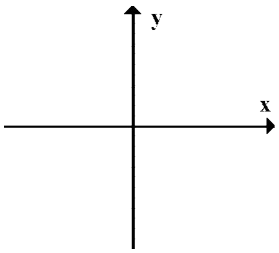
$cosx = -\frac{1}{\sqrt{2}}$



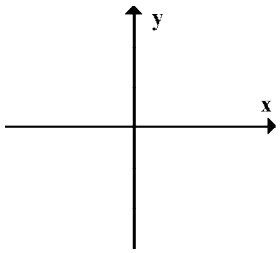
$cosx = -\frac{1}{2}$



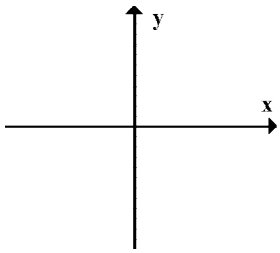
$tanx = -1$



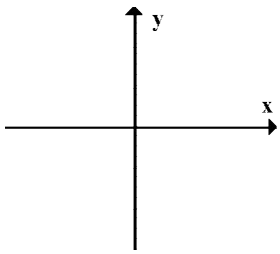
$sinx = -\frac{1}{\sqrt{2}}$



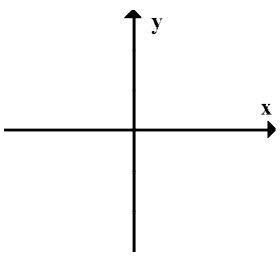
$sinx = -\frac{\sqrt{3}}{2}$



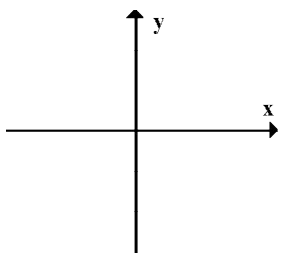
$cosx = -\frac{\sqrt{3}}{2}$



$tanx = -\frac{1}{\sqrt{3}}$



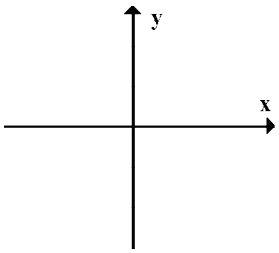
$tanx = -\sqrt{3}$



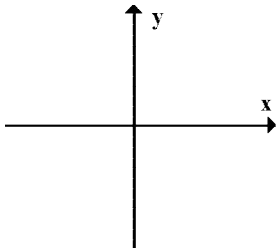
C11 - 2.3 - Ratio Trig Equations HW

Solve for $x, 0 \leq x < 360$, *answer should say* $x =$

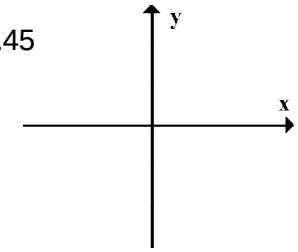
$sinx = 0.6$



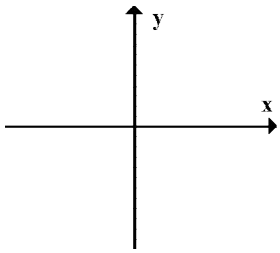
$cosx = \frac{1}{4}$



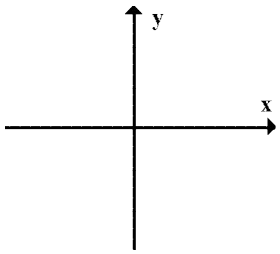
$cosx = 0.45$



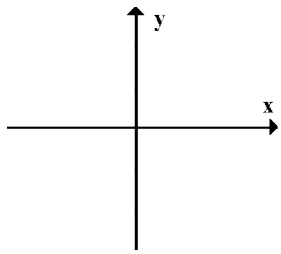
$tanx = \frac{4}{5}$



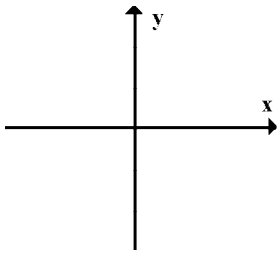
$sinx = 0.4$



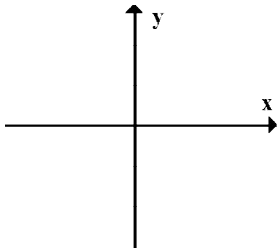
$sinx = \frac{1}{3}$



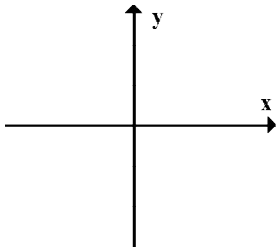
$cosx = 0.75$



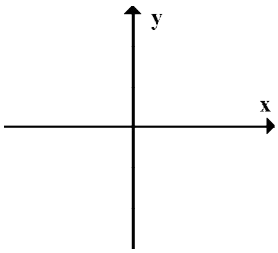
$tanx = \frac{1}{5}$



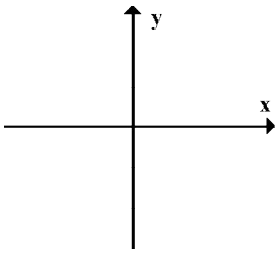
$tanx = 0.35$



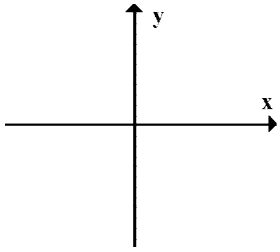
$sinx = -0.1$



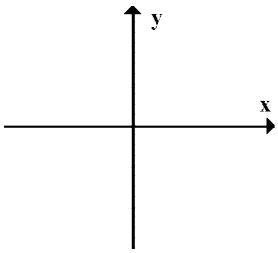
$cosx = -\frac{1}{5}$



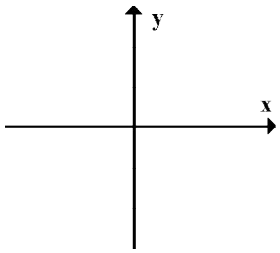
$cosx = -0.65$



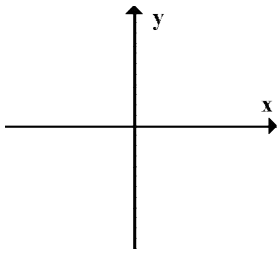
$tanx = -2$



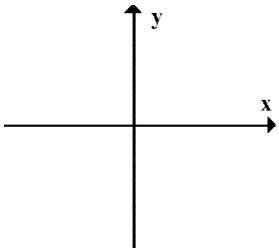
$sinx = -0.8$



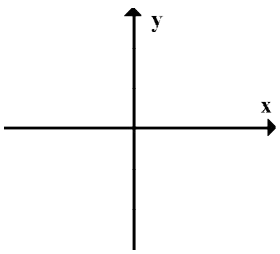
$sinx = -\frac{2}{3}$



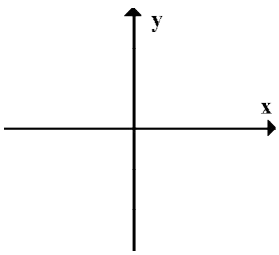
$cosx = -0.5$



$tanx = -0.866$



$tanx = -0.707$

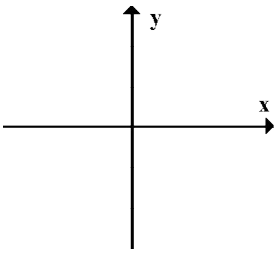


C11 - 2.3 - Algebra Special Trig Equations HW

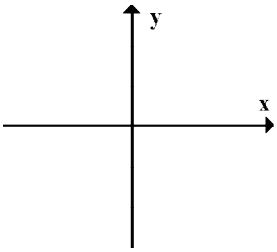
April 20, 2015 9:04 PM

$Solve\ for\ x, 0 \leq x < 360$

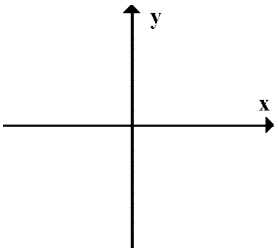
$2sinx = 1$



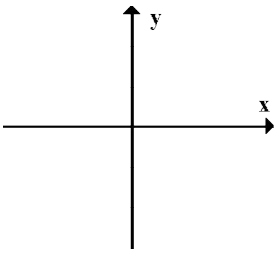
$\sqrt{2}cosx = 1$



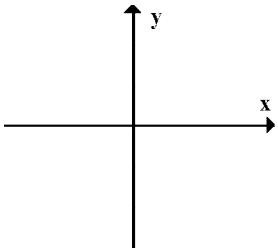
$-2sinx = \sqrt{3}$



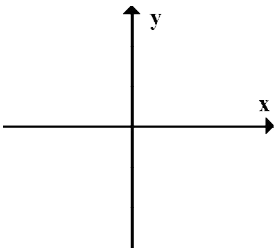
$2tanx = 2$



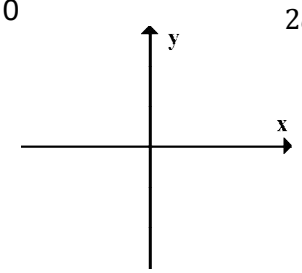
$2cosx = -\sqrt{3}$



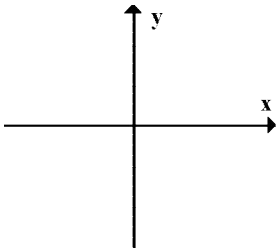
$2sinx = -\sqrt{3}$



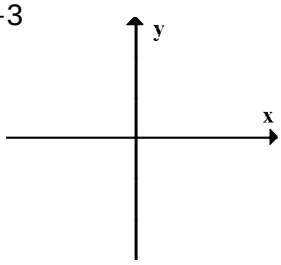
$-\sqrt{2}sinx - 1 = 0$



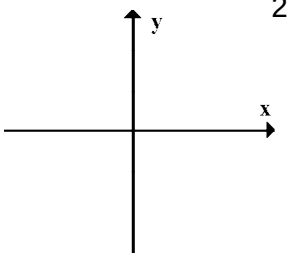
$2cosx + 1 = 0$



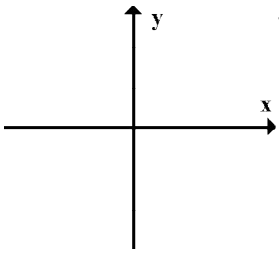
$tanx - 2 = -3$



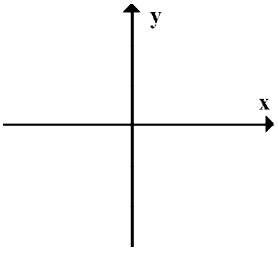
$\sin^2 x = \frac{1}{4}$



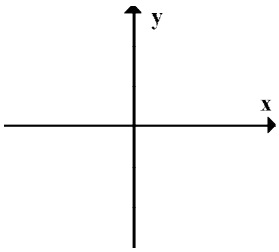
$2\cos^2 x = 1$



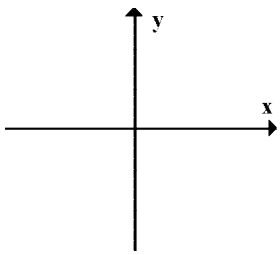
$\tan^2 x = 1$



$4\cos^2 x - 1 = 0$



$2\sin^2 x - 1 = 0$

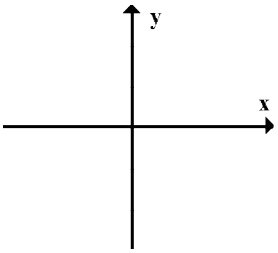


C11 - 2.4 - Unit Circle Trig Equations HW

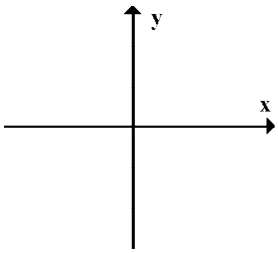
April 20, 2015 9:04 PM

$Solve\ for\ \theta, 0 \leq \theta < 360$

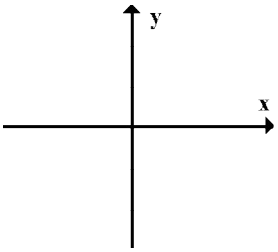
$sin\theta = 1$



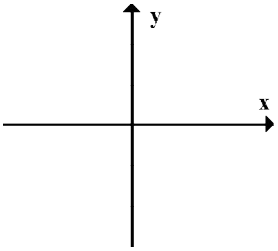
$cos\theta = 0$



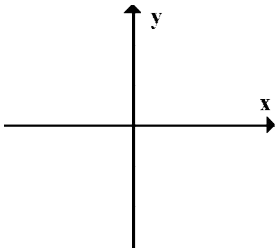
$cos\theta = -1$



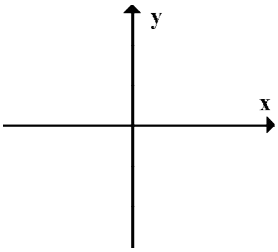
$sin\theta = -1$



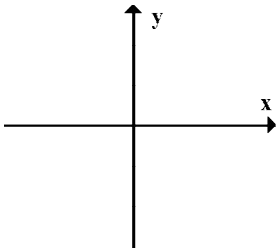
$tan\theta = und$



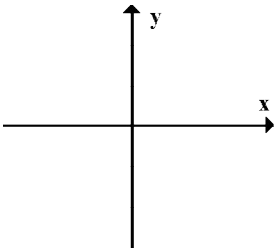
$sin\theta = 0$



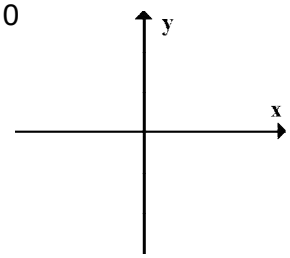
$cos\theta = 1$



$tan\theta = 0$



$\sin^2\theta - 1 = 0$

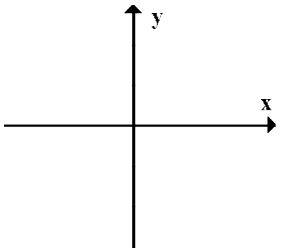


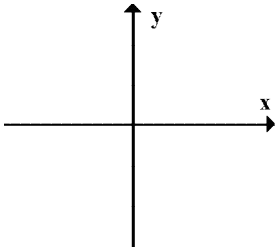
C11 - 2.5 - Factoring Trig Equations HW

April 20, 2015 9:04 PM

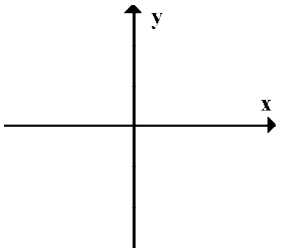
Solve for $x, 0 \leq x < 360$, *by factoring, then setting factors equal to zero and solve.*

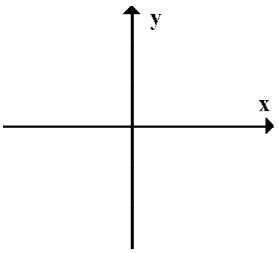
$\sin^2 x - \sin x = 0$



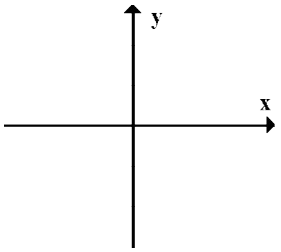


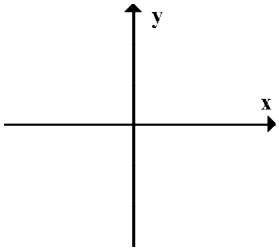
$\cos^2 x + \cos x = 0$



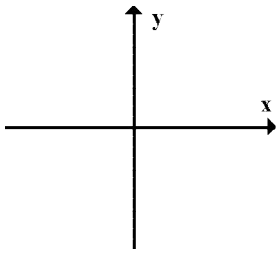


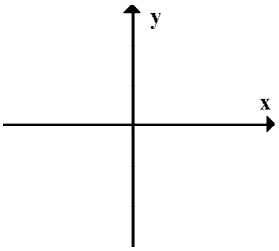
$\sin^2 x + \sin x - 2 = 0$



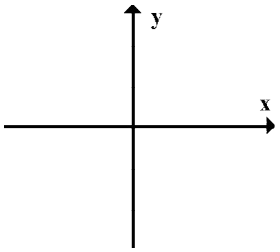


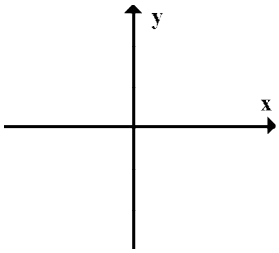
$\cos^2 x - \cos x - 2$



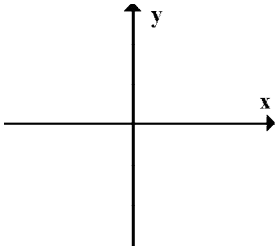


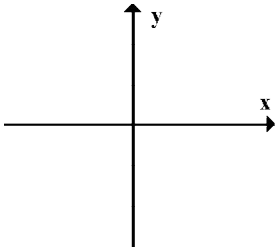
$2\sin^2 x + \sin x - 1$





$2\cos^2 x - \cos x - 1$



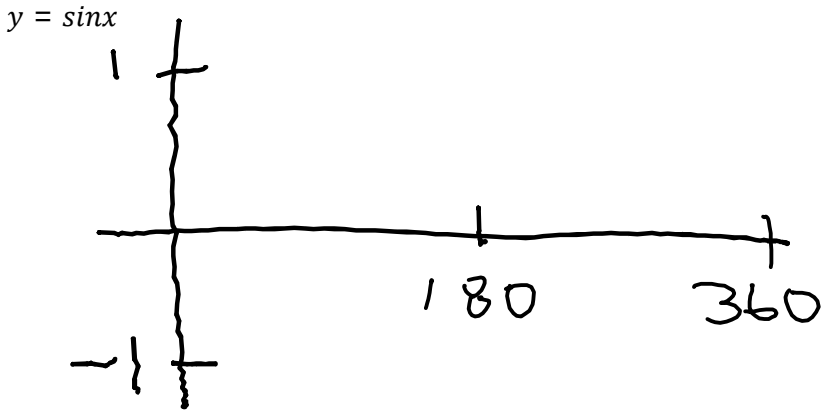


C11 - 2.8 - Trig Ratios Tables and Graphs

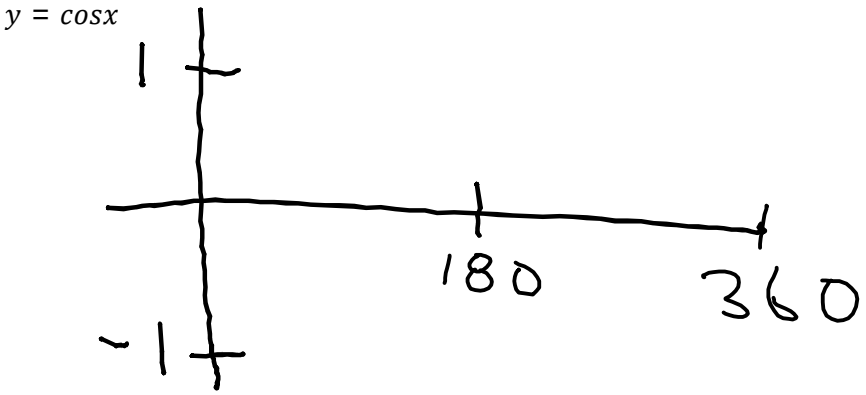
x	$sinx$	$cosx$	$tanx$
30^0			
45^0			
60^0			

x	$sinx$	$cosx$	$tanx$
0^0			
90^0			
180^0			
270^0			
360^0			

$y = sinx$



$y = cosx$



$y = tanx$