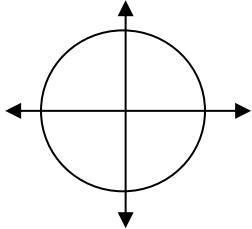


Group member names _____

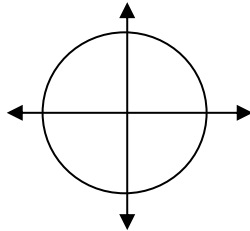
C-Level

AA8-1 and 8-2 Sketch each and convert degrees to radians or vice versa. Leave answers in exact terms. (7 points)

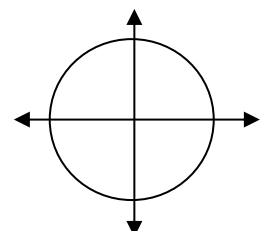
a) $\frac{11\pi}{6}$ radians =



b) $270^\circ =$



c) $\frac{2\pi}{3}$ radians =



Find the exact value

a) $\cos(120^\circ) =$

b) $\sin\frac{5\pi}{4} =$

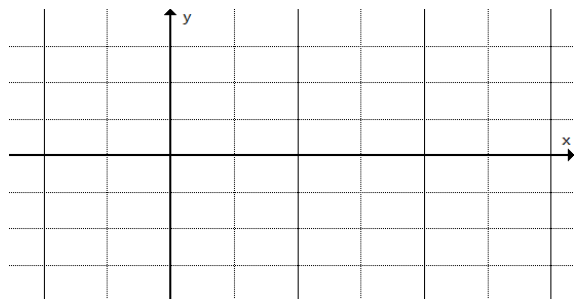
Find the measures between 0 and 2π that satisfy the statement. Answers in RADIANS.

c) $\sin\theta = \frac{1}{2}$

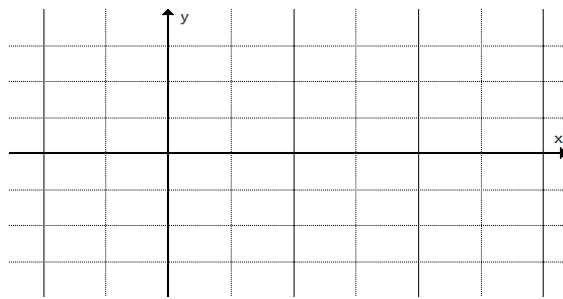
d) $\cos\theta = -\frac{\sqrt{2}}{2}$

AA8-3, 8-4 and 8-5 Graph one period, scale your axes, and make 5 points clear. Graph at least one period, scale your axes, and make 5 points clear. (5 points each)

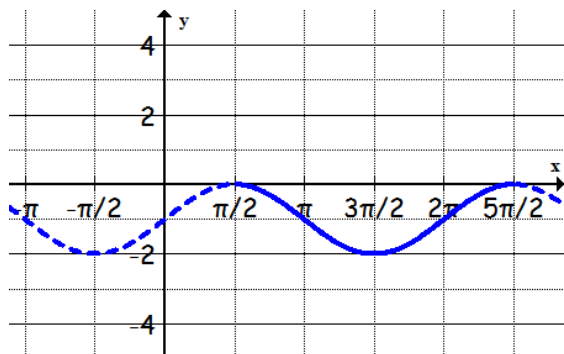
$y = 2\sin(x) - 3$



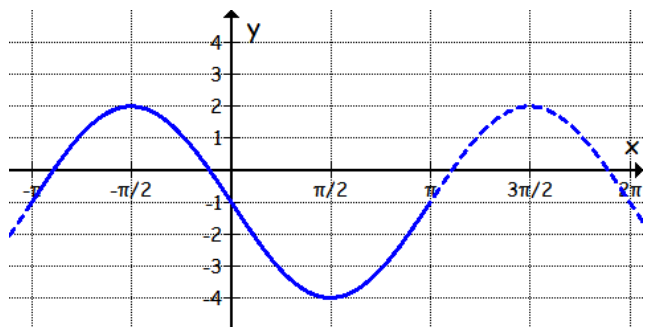
$y = -\cos(x - \pi) + 1$



Give an equation:



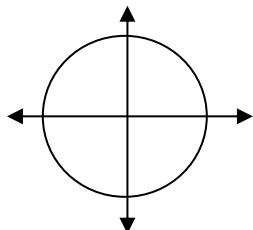
Give an equation:



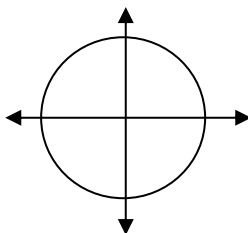
B-Level

Sketch each and convert degrees to radians or vice versa. Leave answers in exact terms. (2 points)

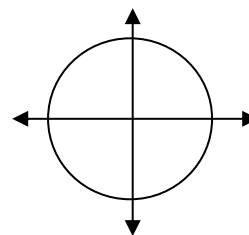
a) $\frac{17\pi}{3}$ radians =



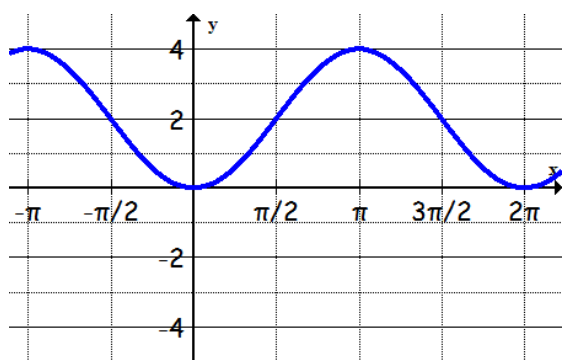
b) $-405^\circ =$



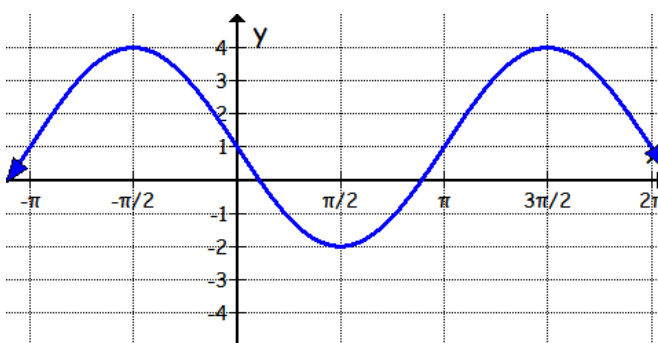
c) $-\frac{11\pi}{2}$ radians =



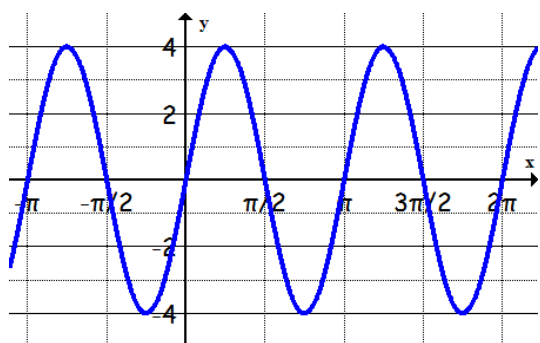
Give a sine and cosine equation. (2 points)



Give a sine and cosine equation. (2 points)

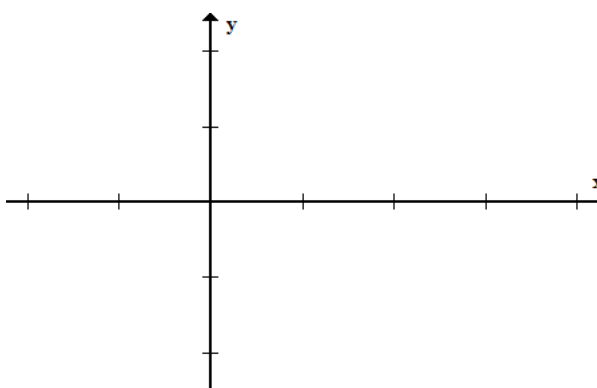


Write an equation (1 point)



Graph (2 points)

$$Y = \cos 8x + 1$$



A-Level (4 points)

Find the equation of a sine function with amplitude 3, period = 4π , passing through the point $(\frac{\pi}{8}, 5)$.

Given $\sin \alpha = \frac{7}{12}$ find the exact value of the $\cos \alpha$.