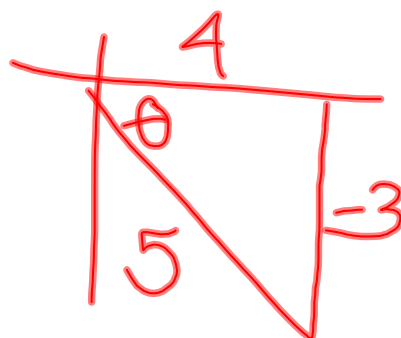


Review:

Given that $\sec \theta = \frac{5}{4}$ and θ is in quadrant IV, evaluate

$$\cos \theta = \frac{4}{5}$$

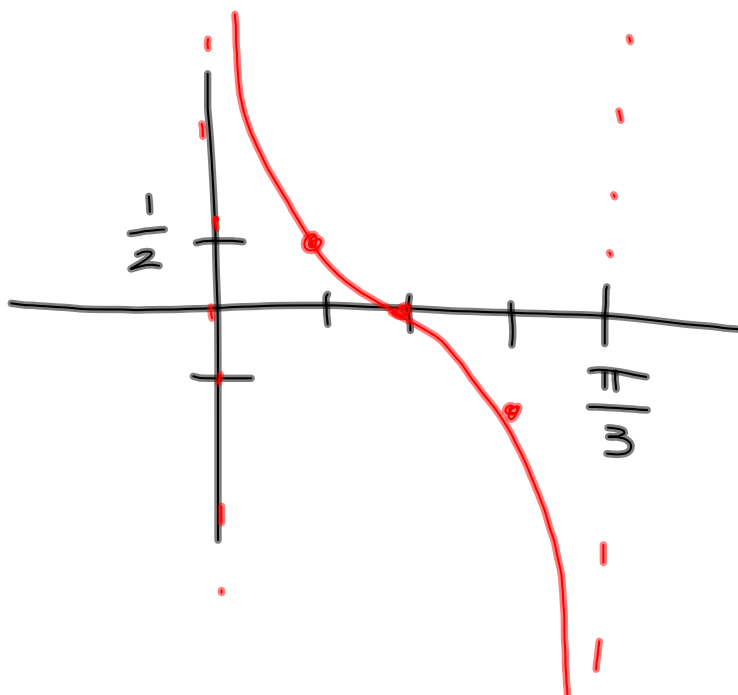
$$\tan \theta = -\frac{3}{4}$$

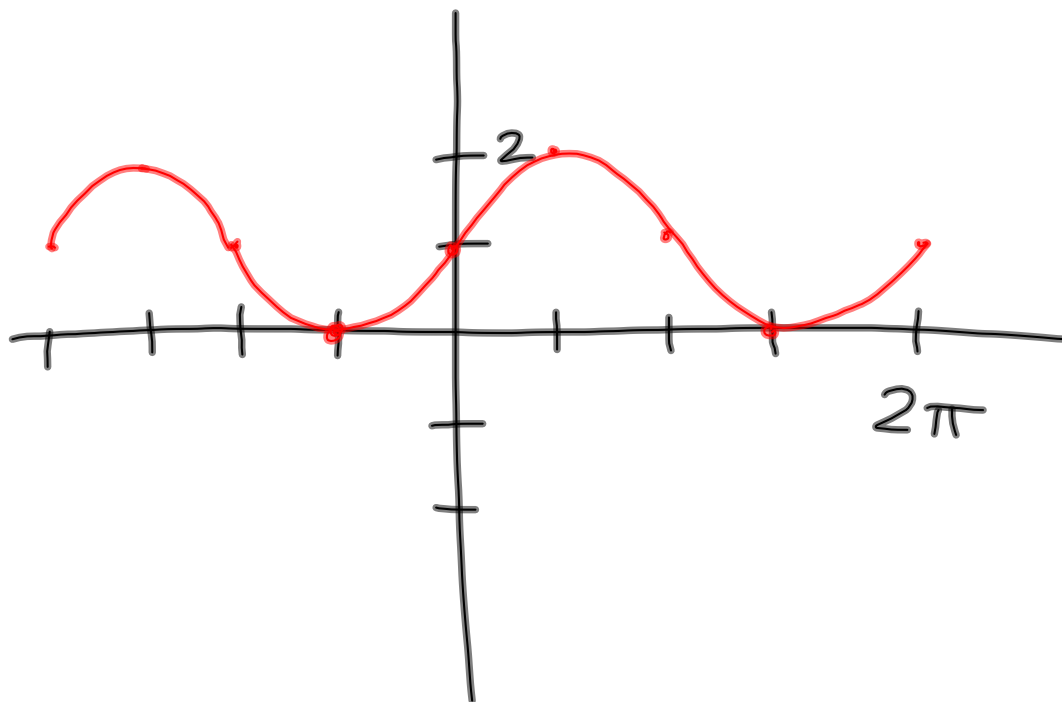


Given that the terminal side of passes through the point $(1, -4)$, evaluate

$$\cot \theta = -\frac{1}{4}$$

$$\sin \theta = -\frac{4}{\sqrt{17}}$$





A. -1

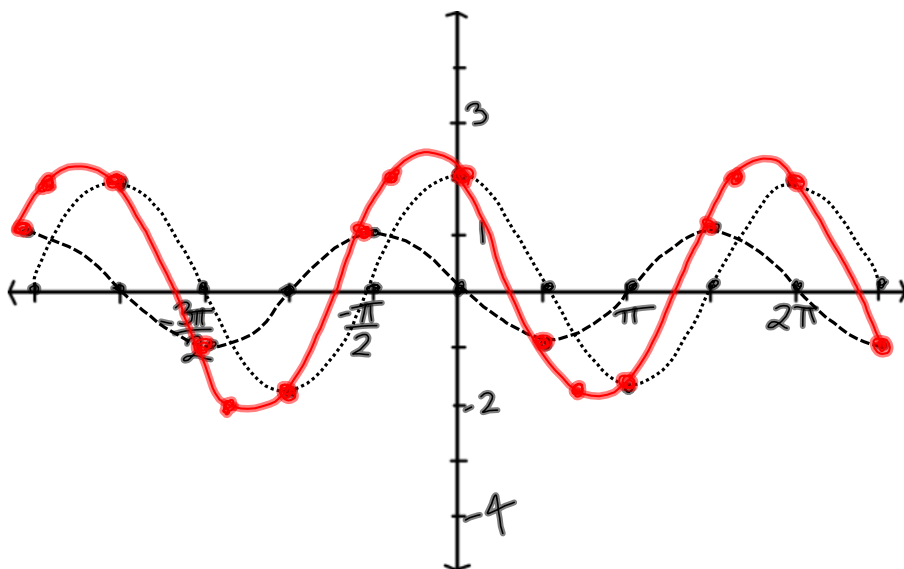
B. $-\frac{\sqrt{3}}{2}$

C. 1

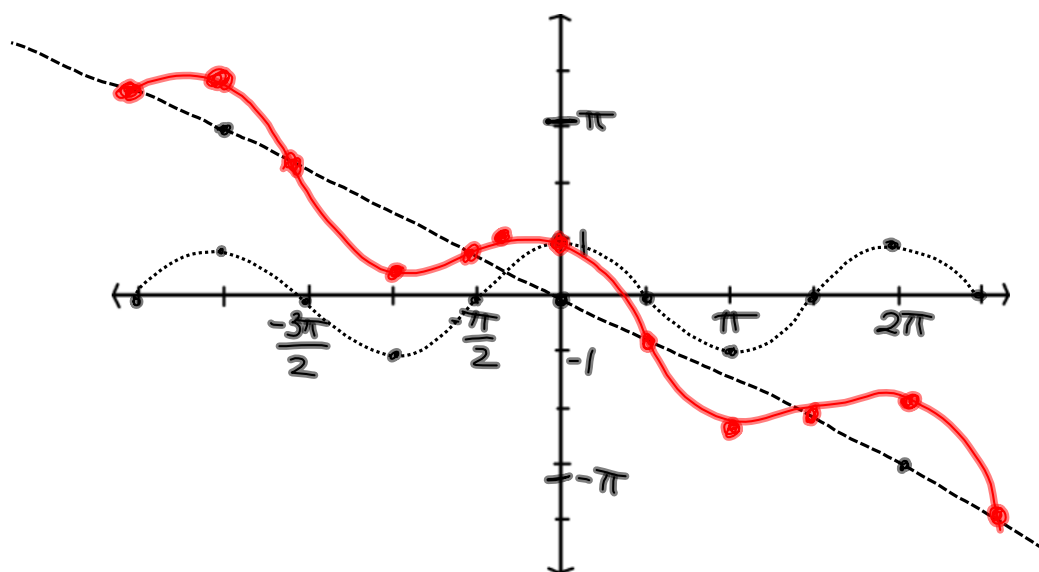
D. $\frac{2}{\sqrt{3}}$

$$y = 2\cos x - \sin x = 2\cos x + (-\sin x)$$

amp 2 amp 1
(both have per 2π)

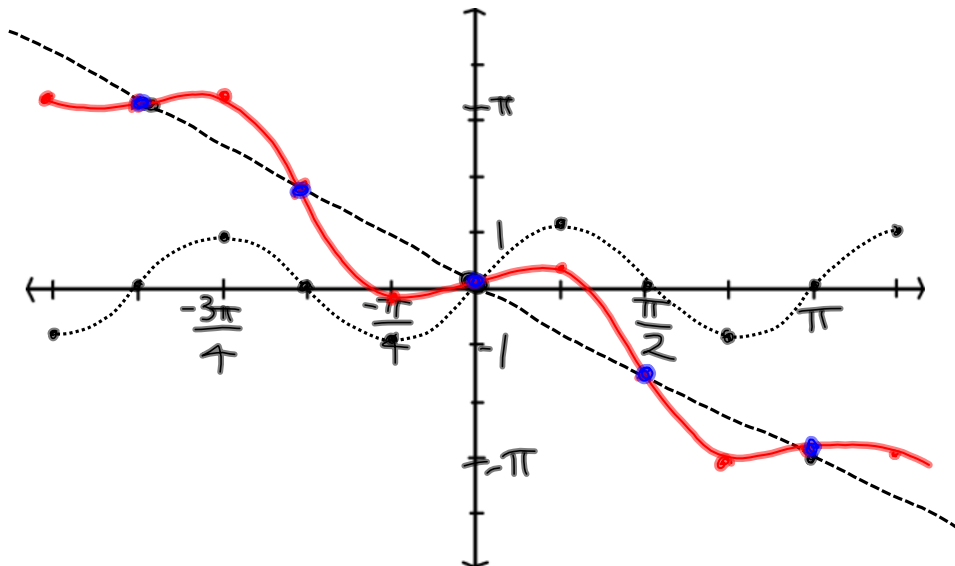


$$y = \cos x - \frac{1}{2}x = \cos x + \left(-\frac{1}{2}x\right)$$



$$y = \sin 2x - x$$

amp: 1
per: $\frac{2\pi}{2} = \pi$



$$y = -\frac{2}{5} \csc\left(\frac{\pi}{3}x + \frac{3\pi}{2}\right) + \frac{4}{5}$$

amp: $\frac{2}{5}$

per:
 $\frac{2\pi}{\pi/3} = 2\pi \cdot \frac{3}{\pi} = 6$

h. shift:
 $\frac{3\pi}{2 \cdot \pi/3} = \frac{3\pi}{2} \cdot \frac{3}{\pi} = \frac{9}{2}$ left
3 ticks

v. shift:
 $\frac{4}{5}$ up
2 ticks

