Unit circle, from Essential Precalculus, pg 110

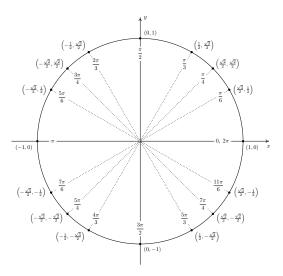


Figure 4.1.15: Important Points on the Unit Circle

True or False:
$$\sin\left(\frac{\pi}{3}\right) = \frac{1}{2}$$

- (a) True, and I can explain why
- (b) True, but I am unsure why
- (c) False, and I can explain why
- (d) False, but I am unsure why
- (e) Umm ...

True or False:
$$\cos\left(\frac{5\pi}{6}\right) = -\frac{\sqrt{3}}{2}$$

- (a) True, and I can explain why
- (b) True, but I am unsure why
- (c) False, and I can explain why
- (d) False, but I am unsure why
- (e) Umm ...

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$$\cos\left(-\frac{2\pi}{3}\right) =$$

- (a) $\frac{1}{2}$
- (b) $-\frac{\sqrt{3}}{2}$
- (c) $-\frac{1}{2}$
- (d) $\frac{2}{\sqrt{2}}$
- (e) Umm ...

$$\tan\left(\frac{5\pi}{4}\right) =$$

- (a) -1
- (b) 1
- (c) $-\frac{\sqrt{2}}{2}$
- (d) Is undefined
- (e) Umm ...

Graph $y = \sin(x)$ and $y = \cos(x)$ on the interval $[0, 2\pi]$

- 1. Where is sin(x) positive? Negative? Increasing? Decreasing?
- 2. Where is cos(x) positive? Negative? Increasing? Decreasing?

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