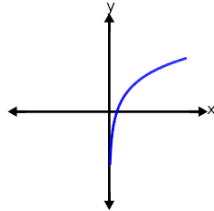




Graph cosine functions

1

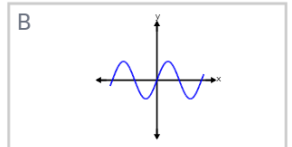
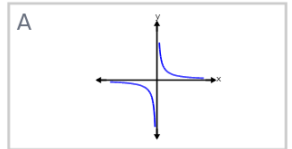
What type of graph is this?



- A Cubic B Trigonometric C Reciprocal D Logarithmic

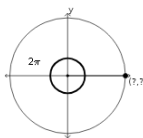
2

Reciprocal



3

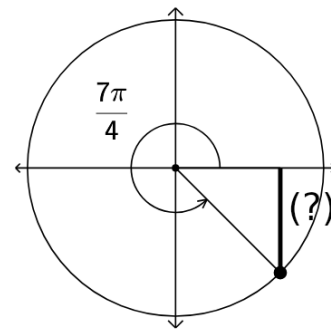
What are the coordinates of the unit circle point at 2π radians



- A $(\sin(2\pi), \cos(2\pi))$
B $(\cos(2\pi), \sin(2\pi))$

4

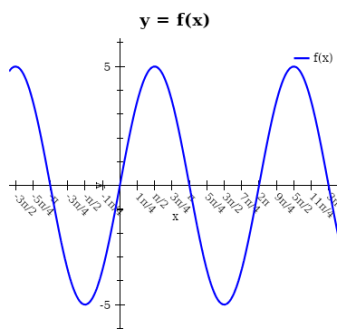
What calculation gives the Y dimension for the unit circle point at $7\pi/4$ radians?



- A $\sin\left(\frac{7\pi}{4}\right) = -\frac{\sqrt{2}}{2}$
B $\cos\left(\frac{7\pi}{4}\right) = -\frac{1}{2}$

5

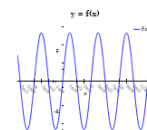
Which function would have a graph with this phase shift?



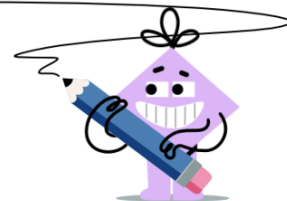
- A $f(x) = -5 \cos\left(x - \frac{2}{6}\pi\right)$ B $f(x) = -5 \cos\left(x - \frac{4}{6}\pi\right)$
C $f(x) = -5 \cos(x + 5\pi)$ D $f(x) = -5 \cos\left(x - \frac{3}{6}\pi\right)$

6

Which function would have a graph with this period?



- A $f(x) = 8 \cos(5x + 6\pi)$ B $f(x) = 8 \cos(2x + 6\pi)$
C $f(x) = 8 \cos(4x + 6\pi)$ D $f(x) = 8 \cos(6x + 6\pi)$

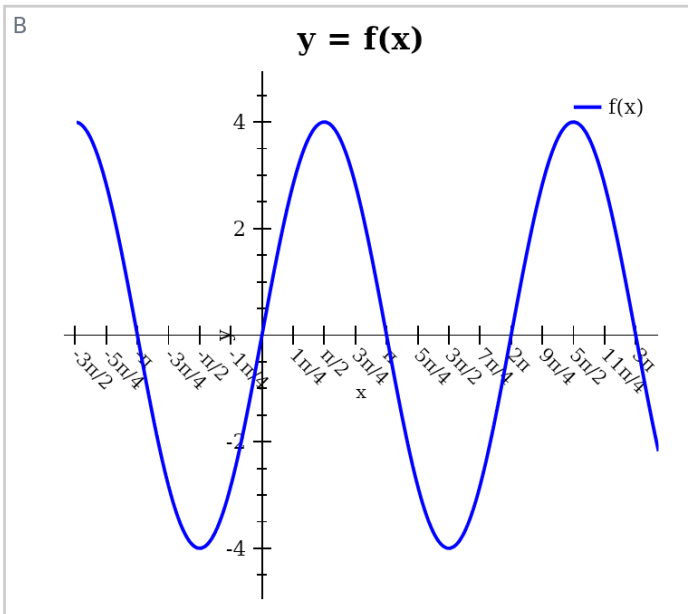
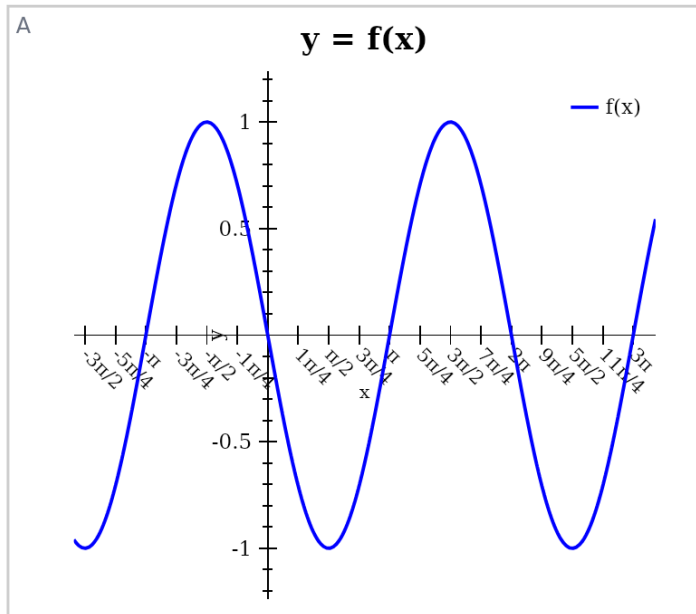


Graph cosine functions

7

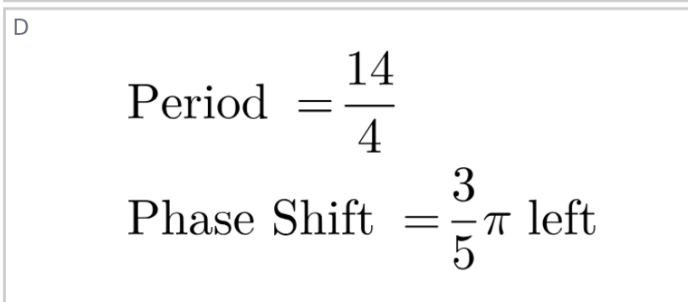
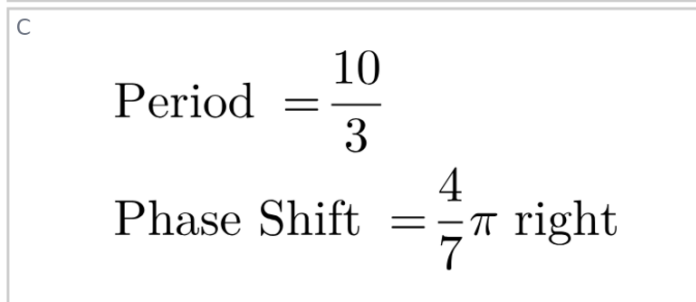
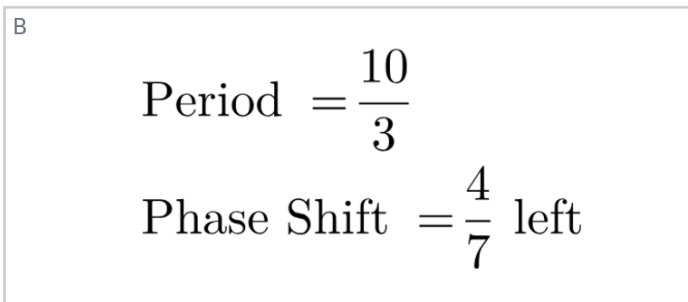
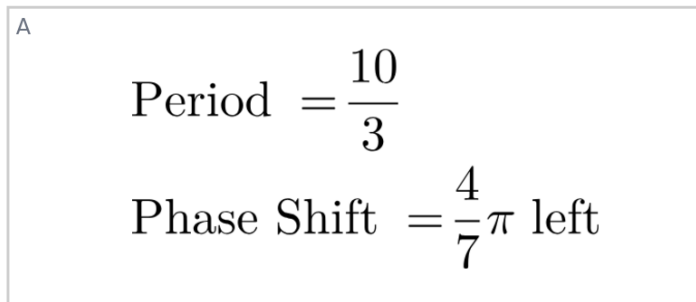
Which graph shows a sinusoidal function with this amplitude?

$$f(x) = 4\sin(x)$$

**8**

What are the phase shift and period of this sinusoidal function?

$$f(x) = \cos\left(\frac{3}{5}\pi x + \frac{4}{7}\pi\right)$$

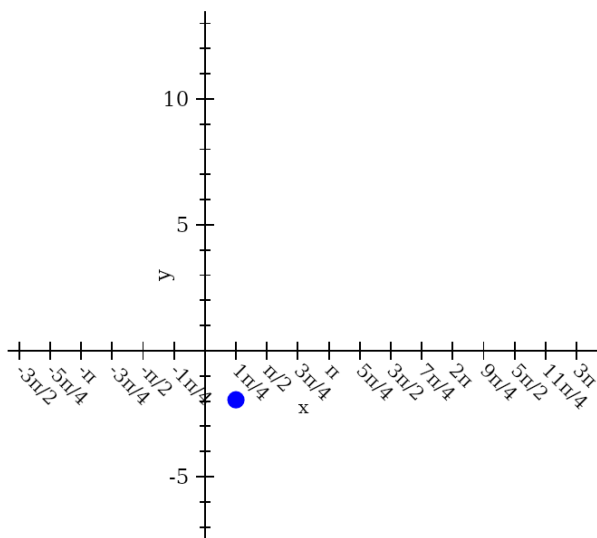
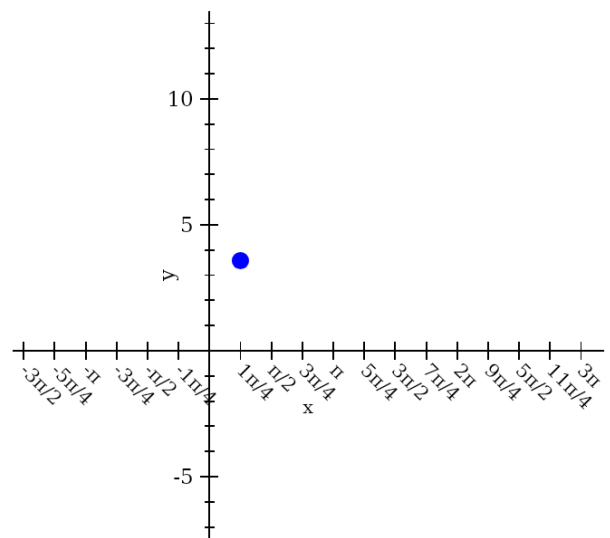




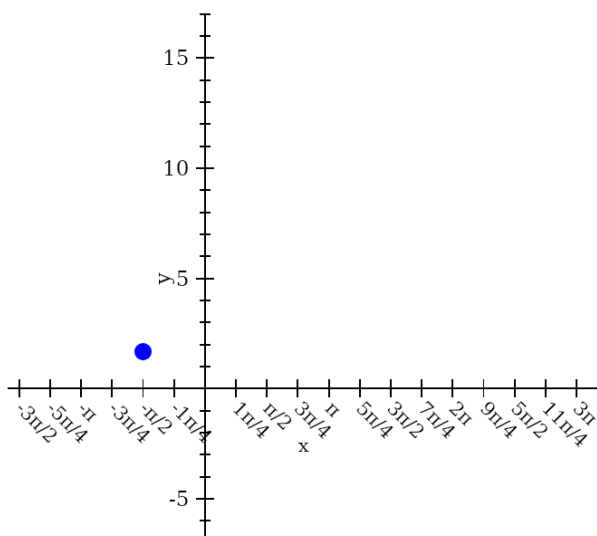
Graph cosine functions

9Which graph shows the value of this function at $x = 1\pi/4$?

$$f(x) = -7\sin(x) + 3$$

A $y = f(x)$ **B** $y = f(x)$ **10**Which graph shows the value of this function at $x = -\pi/2$?

$$f(x) = -8\sin(x + 2\pi) + 5$$

A $y = f(x)$ **B** $y = f(x)$ 