Question

1. Choose the function whose graph is given by:
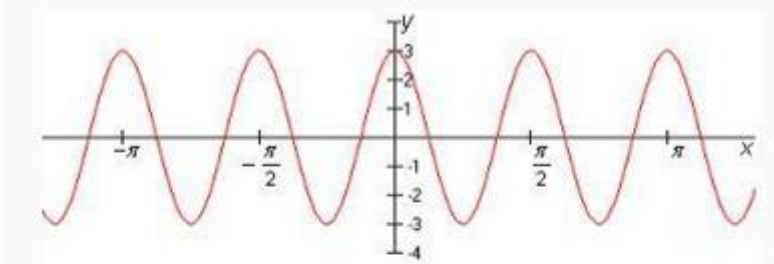

$y = 4\sin(x + 1) - 2$

$y = 4\cos(x - 1) + 2$

$y = 6\sin(x + 1) - 2$

$y = 4\sin(x - 1) - 2$

Answer: y=4sin(x+1)-2.

2. Choose the function whose graph is given by:

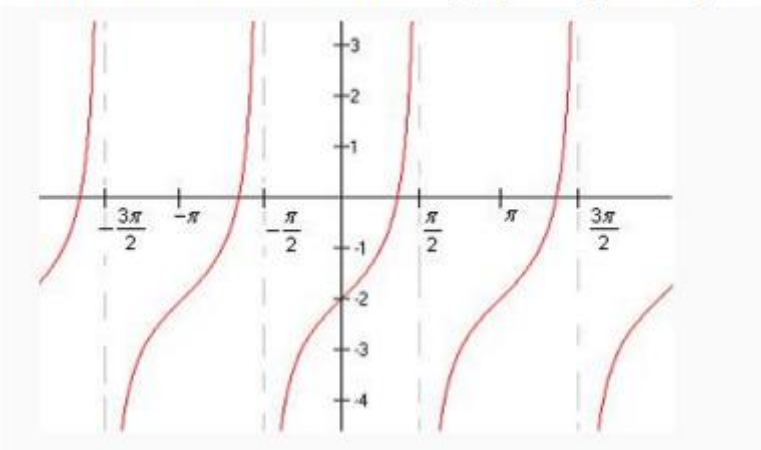$$y = 3\cos\left(\frac{\pi}{2}x\right)$$

$$y = -3\cos(4x)$$

$$y = 3\cos(4x)$$

$$y = 3\cos\left(\frac{1}{4}x\right)$$

Answer: y=3cos(4x).

3.

Choose the function whose graph is given by:

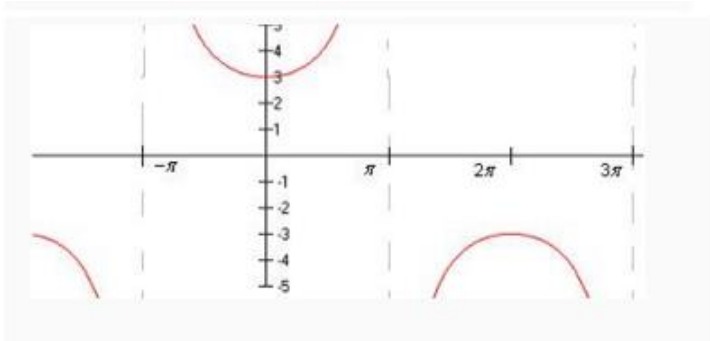$$y = \tan(x-2) - \frac{\pi}{2}$$

$$y = \tan(x - \pi) - 2$$

$$y = \tan(x-2) + \pi$$

$$y = \tan x$$

Answer: y=tan(x-π)-2.

4. Choose the function whose graph is given by:

$$y = 3\sec\left(\frac{1}{2}x\right)$$

$$y = 3\csc\left(\frac{1}{2}x\right)$$

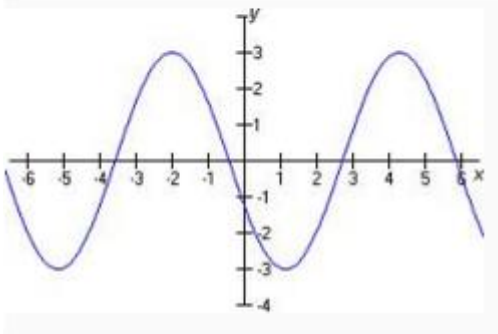$$y = \frac{1}{3}\sec(2x)$$

$$y = \sec\left(\frac{1}{2}x\right) + 3$$

Answer: $y = 3\sec\left(\dfrac{1}{2}x\right)$.

5.

Let the function $f(x)$ have the form $f(x) = A\cos(x + C)$.
To produce a graph that matches the one shown below, what must the value of *A* be?

1

3

2

4

Answer: A = 3.