

[07-03-27-MT-11]

Exercises 1.5

Give the amplitude, phase shift, and fundamental period of each of the following.

~~1.~~ $y = \sin\left(x + \frac{\pi}{2}\right)$
~~3.~~ $y = \cos(2x + \pi)$
~~5.~~ $y = 2 \sin(x + \pi)$
~~7.~~ $y = -3 \cos\left(2x - \frac{\pi}{2}\right)$

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

4. $y = \sin(3x - \pi)$

~~6.~~ $y = 3 \cos(3x + 2\pi)$

8. $y = -2 \sin\left(3x - \frac{\pi}{2}\right)$

Graph each of the following.

~~9.~~ $y = \sin\left(x + \frac{\pi}{2}\right)$

~~11.~~ $y = \cos(2x + \pi)$

~~13.~~ $y = 2 \sin(x + \pi)$

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

10. $y = \cos\left(x - \frac{\pi}{2}\right)$

12. $y = \sin(3x - \pi)$

14. $y = 3 \cos(3x + 2\pi)$

~~16.~~ $y = -2 \sin\left(3x - \frac{\pi}{2}\right)$

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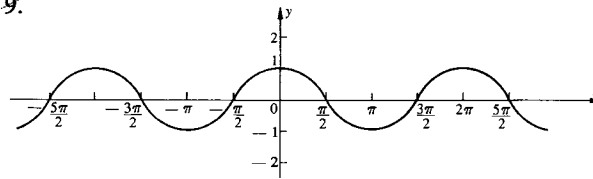
1. $1, -\frac{\pi}{2}, 2\pi$

3. $1, -\frac{\pi}{2}, \pi$

5. $2, -\pi, 2\pi$

7. $3, \frac{\pi}{4}, \pi$

9.



13.

