Exercises 1.5

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

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

Graph each of the following.

9. $y = \sin\left(x + \frac{\pi}{2}\right)$.
10. $y = \cos\left(x - \frac{\pi}{2}\right)$.
11. $y = \cos(2x + \pi)$.
12. $y = \sin(3x - \pi)$.
13. $y = 2\sin(x + \pi)$.
14. $y = 3\cos(3x + 2\pi)$.
15. $y = -3\cos\left(2x - \frac{\pi}{2}\right)$.
16. $y = -2\sin\left(3x - \frac{\pi}{2}\right)$.

Exercises 1.5

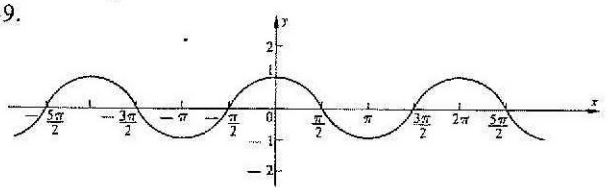
1. $1, -\frac{\pi}{2}, 2\pi$

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

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

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

9.



13.