

Math 1613 - Trigonometry

Discussion Board Week 4 - Due 2019.06.30

For the given function, sketch the graph over a two-period interval. Be sure to include the period, shift, amplitude, etc... Be detailed!

1. $f(x) = 2 + \frac{3}{2} \sin\left(2\left(x + \frac{\pi}{4}\right)\right)$

2. $f(x) = -1 + 4 \cos\left(3\left(x - \frac{\pi}{3}\right)\right)$

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

4. $f(x) = 2 - 3 \sin\left(2x + \frac{\pi}{6}\right)$

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

6. $f(x) = \frac{2}{3} - 2 \cos\left(-2x + \frac{3\pi}{4}\right)$

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

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

9. $f(x) = 2 + 3 \sin\left(\frac{2}{3}x + \frac{7\pi}{6}\right)$

10. $f(x) = -2 - 5 \cos\left(\frac{2}{3}x - \frac{\pi}{6}\right)$

11. $f(x) = -2 + \frac{2}{5} \cos\left(-\frac{4}{3}x + \frac{4\pi}{3}\right)$

12. $f(x) = -1 + \frac{2}{5} \cos\left(-\frac{4}{3}x + \frac{4\pi}{3}\right)$

13. $f(x) = -1 + \frac{3}{2} \sin\left(\frac{2}{3}x - \frac{2\pi}{3}\right)$

14. $f(x) = -1 + \frac{1}{2} \cos\left(\frac{1}{3}x + \frac{5\pi}{6}\right)$

15. $f(x) = 1 + \frac{5}{2} \sin\left(-\frac{1}{3}x + \frac{5\pi}{6}\right)$