

Algebra 3 Assignment # 12 and 13

Sketch a graph of each of the following showing at least one period please.

(1) $y = 4 \sin(3x + \pi)$

(11) $y = 3 \sec\left(5x + \frac{\pi}{2}\right)$

(2) $y = -2 \cos\left(\frac{1}{2}x - \frac{\pi}{2}\right)$

(12) $y = -\csc\left(\frac{1}{3}x + \pi\right) + 1$

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

(13) $y = -2 \sec\left(2x - \frac{\pi}{4}\right)$

(4) $y = \cos\left(\frac{2}{3}x\right) - 1$

(14) $y = 4 \csc(\pi x)$

(5) $y = 3 \sin\left(2x + \frac{\pi}{6}\right) - 3$

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

(6) $y = 5 \cos\left(\frac{1}{3}x + \pi\right)$

(16) $y = -4 \csc\left(\pi x + \frac{\pi}{2}\right)$

(7) $y = 2 \tan(3x + \pi)$

(17) $y = -\tan\left(3x + \frac{\pi}{4}\right)$

(8) $y = \cot(x - \pi)$

(18) $y = \sin\left(\frac{1}{2}x - \frac{\pi}{6}\right) + 1$

(9) $y = -\tan\left(\frac{1}{2}x - \frac{3\pi}{2}\right)$

(19) $y = 2 \sec\left(3x + \frac{\pi}{4}\right)$

(10) $y = -2 \cot(3x)$

(20) $y = \sin(2x) \cos(2x)$