Trig Graphing – WS 3 – sample answers (answers may vary!!)

1) $y = 5\sin(\theta - 60°)$

2) $y = \dfrac{2}{3}\sin\left(2\left(x - \dfrac{\pi}{4}\right)\right)$

3) $y = 17\sin(8(\theta + 60°))$

4) $y = \dfrac{1}{2}\sin\left(\dfrac{4}{3}\left(x + \dfrac{\pi}{4}\right)\right)$

5) $y = 7\sin\left(\dfrac{8}{5}(\theta + 90°)\right)$

6) $y = \dfrac{1}{3}\cos(2\theta)$

7) $y = 3\cos(2(\theta - 120°))$

8) $y = 100\cos\left(\dfrac{4}{7}(\theta + 90°)\right)$

9) $y = \dfrac{7}{3}\cos\left(\dfrac{12}{5}(\theta - 270°)\right)$

10) $y = \cos\left(\dfrac{8}{3}\left(x + \dfrac{\pi}{3}\right)\right)$

Trig Graphing – WS 4 – sample answers (answers may vary!!)

1) $y = -3\sin\left(\dfrac{1}{4}(x - \pi)\right) + 5$

2) $y = 4\cos\left(\dfrac{\pi}{10}(x - 2\pi)\right) - 3$

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

4) $y = 0.05\sin\left(\dfrac{\pi}{4}(x + 3)\right) + 0.25$

5) $y = 9\cos(8x) + 4$

6) $y = 2\cos(5\pi(x + 0.13)) - 8$

7) $y = 5\cos\left(\dfrac{\pi}{15}(x + 5)\right) - 2$

8) $y = 7.2\cos\left(\dfrac{\pi}{800}(x - 100)\right) - 2.4$

9) $y = 6\cos(2(\theta - 20°)) + 9$

10) $y = 10\sin(9(\theta - 14)°) + 8$

11) $y = 5\cos(3(\theta - 10°)) - 3$

12) $y = 10\sin(18(\theta + 2°)) - 30$

13) $y = 1.11\cos(10(\theta + 7°)) + 1.45$

14) $y = -20\sin(360\theta) + 30$

15) $y = \sqrt{3}\sin(\theta + 60°)$

16) $y = 5000\cos(45(\theta + 1°))$