

Pre-Calculus
Chapter 7
Graphing Amplitude, Frequency, Phase & Vertical Shift
Worksheet #5

Graph each of the following over ONE fundamental period:

1. $y = 3\sin 2x + 2$

2. $y = 2\cos \frac{1}{2}x - 1$

3. $y = -\sin \pi(x-2) - 2$

4. $y = \cos \frac{\pi}{2}(x+1) + 3$

5. $y = -2\csc \frac{\pi}{2}(x-2) + 3$

6. $y = \cot \pi(x+3) - 2$

7. $y = 2\csc 2(x+\pi) + 1$

8. $y = 3\cot \frac{1}{2}(x+\frac{\pi}{2}) - 2$

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

10. $y = -\sec 2\left(x + \frac{\pi}{2}\right) + 1$

11. $y = 2\tan 2\left(x + \frac{\pi}{2}\right) - 3$

12. $y = 2\sec \frac{1}{2}(x-\pi) + 1$

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