

Trig Graphs #6 (No Calculator)**Pre Calculus**

State the amplitude, period, phase shift, and vertical shift. Then graph for one period.

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

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

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

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

Graph using addition of ordinates.

5. $y = 2 \cos x + \cos 2x$

6. $y = 2 \sin x + \sin 2x$

7. $y = \sin x + \frac{1}{2} \cos 2x$

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

9. $y = \sin 2x - 2 \sin x$

10. $y = \sin 2x - 2 \cos x$

11. $y = 2 \cos x - 2 \sin x$

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

13. $y = \sin 2x + \cos 3x$

14. $y = \sin 3x + \cos 2x$