

TRIGONOMETRY
Sections 4.1 to 4.3
WORKSHEET 1

Name Key

Name the amplitude of each :

1) $y = -3 \sin 2x$

3

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

$\frac{1}{2}$

Name the period for each :

3) $y = -\tan 2x$

$\frac{\pi}{2}$

$\frac{\pi}{2}$

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

$\frac{1}{2}(x + \pi)$

$\frac{2\pi}{\frac{1}{2}}$

4π

Name the vertical translation for each :

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

down 1

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

none

Name the phase shift for each :

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

right $\frac{\pi}{4}$

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

left π

Name the Maximum/Minimum for each :

9) $y = 3 \sin 4x$

3, -3

10) $y = 5 - 3 \cos (x + \pi)$

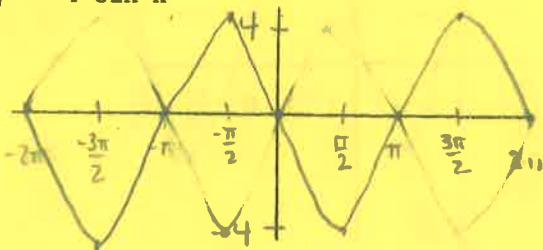
8, 2

11) $y = 2 - \tan (x - \pi)$

$\infty, -\infty$

Sketch each :

12) $y = -4 \sin x$



13) $y = -2 + \frac{1}{2} \cos x$

2π

