

Trig Review #1
No Calculators

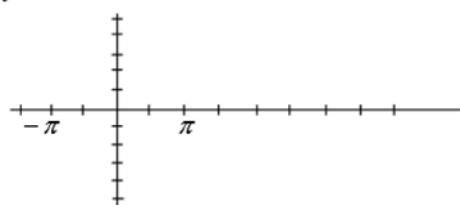
Pre Calculus

Name _____

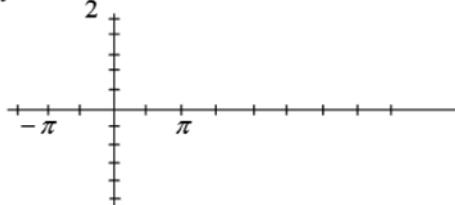
1. For what angle θ , $0^\circ \leq \theta \leq 270^\circ$, does $\sin \theta = -1$?
2. Write $\cos 120^\circ$ in simplest radical form.
3. If $\sin \theta = \frac{3}{5}$ and $\cos \theta$ is negative, find $\tan \theta$.
4. $\sin \alpha$ is $\frac{4}{9}$ and α is in quadrant II. Find $\sec \alpha$.
5. Given $\angle B$ in standard position with the terminal side of B passing through $(-2, -5)$. Find $\sin B$ in simplest radical form.
6. Find the reference angle for 482° .
7. Express $\tan(-213^\circ)$ as a function of a positive acute angle.
8. Find the exact value of $\tan 30^\circ \sin 60^\circ - \cos 180^\circ \cos 60^\circ$
9. $\cos 73^\circ = m$. What positive acute angle A has $\sin A = m$?
10. $\sin \theta = 3w$. Find $\csc \theta$.
11. $\tan \theta = \sqrt{3}$ and θ is in the third quadrant. Find the measure of $\angle \theta$.
12. Express $\cot 243^\circ$ as a function of a positive acute angle.
13. Given $\sin 160^\circ = a$. Find the value of the following in terms of a :
$$\frac{\sin 20^\circ - \csc 200^\circ}{\tan 160^\circ \cot 160^\circ - \sin 340^\circ}$$

14 – 23. Graph the following for one period.

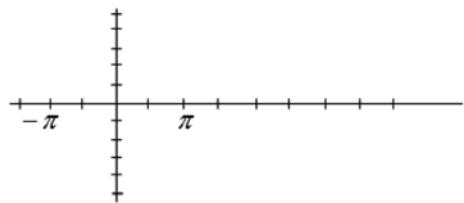
14. $y = 2 \sin x$



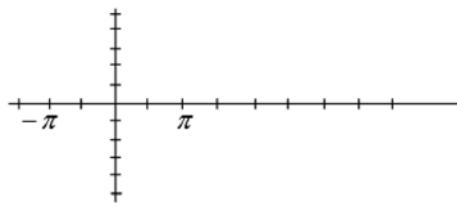
15. $y = \cos \frac{1}{2}x$



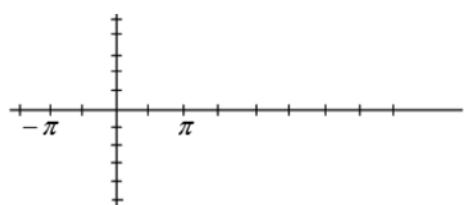
16. $y = -\frac{1}{2} \cos \frac{2}{3}x$



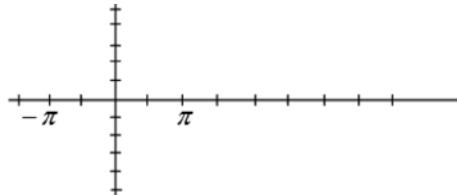
17. $y = 3 \sin 2x$



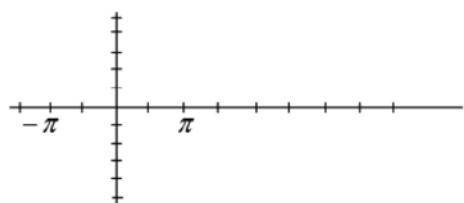
18. $y = 1 + 2 \sin 2x$



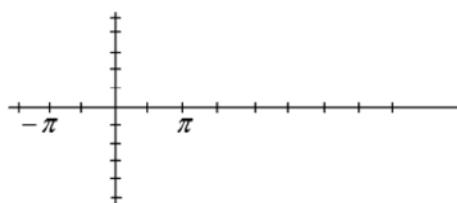
19. $y = -2 - \cos \frac{3}{2}x$



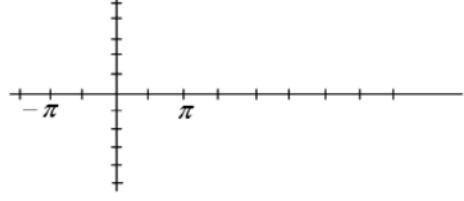
20. $y = 2 \sin \left(x - \frac{\pi}{3} \right)$



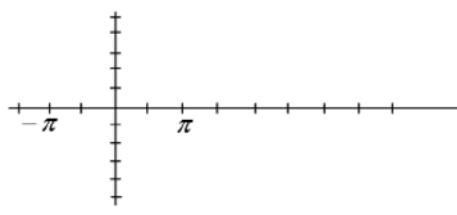
21. $y = 1 + \cos 2 \left(x + \frac{\pi}{6} \right)$



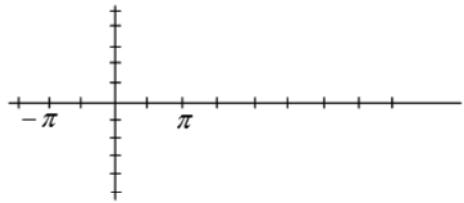
22. $y = -2 + 3 \sin \left(\frac{x}{2} - \frac{\pi}{3} \right)$



23. $y = 2 \sin x + \cos 2x$



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



Scrambled answers to 1-12: $17^\circ, 58^\circ, 240^\circ, 270^\circ, -\frac{9}{\sqrt{65}}, \frac{1}{3w}, 1, -\frac{1}{2}, -\frac{3}{4}, -\frac{5}{\sqrt{29}}, \cot 63^\circ, -\tan 33^\circ$