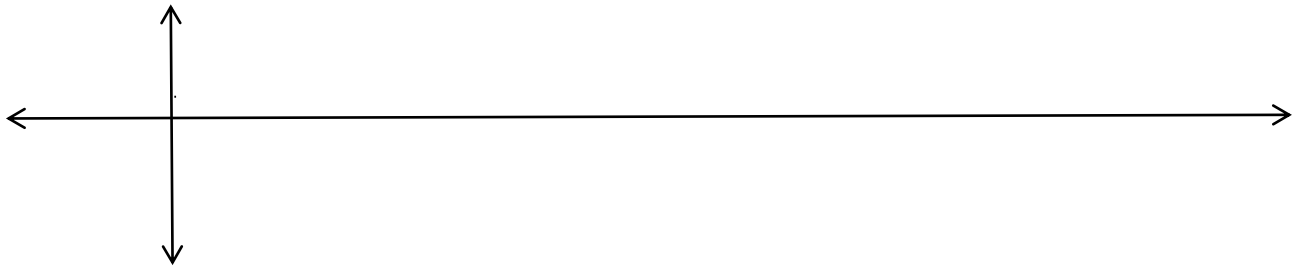
Introduction to Graphing Trigonometric Functions

Use your unit circle to evaluate the function at each value then graph the points.

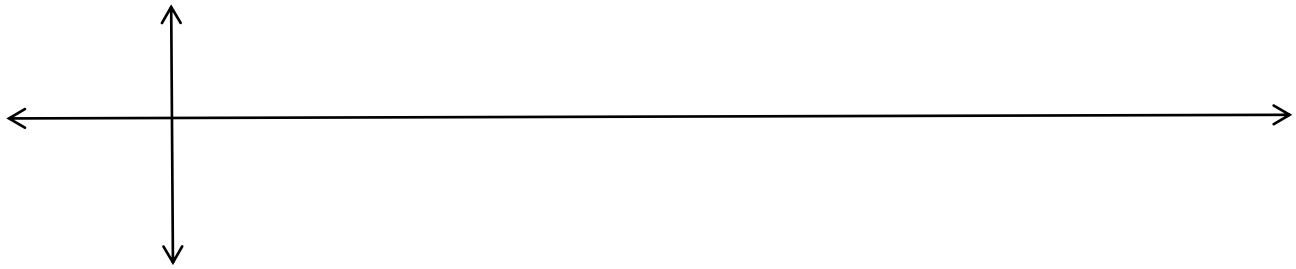
1. $y = \sin\theta$

θ	0	$\frac{\pi}{4}$	$\frac{\pi}{2}$	$\frac{2\pi}{3}$	$\frac{3\pi}{4}$	π	$\frac{5\pi}{4}$	$\frac{3\pi}{2}$	$\frac{7\pi}{4}$	$\frac{11\pi}{6}$	2π	$\frac{9\pi}{4}$	$\frac{5\pi}{2}$
y													



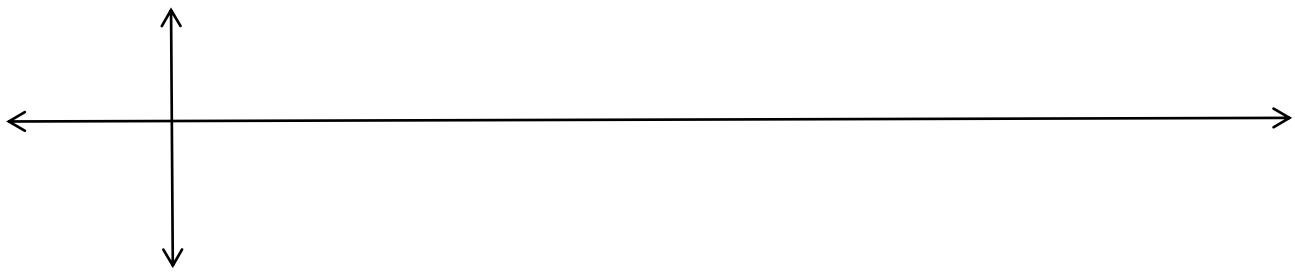
2. $y = \cos\theta$

θ	0	$\frac{\pi}{4}$	$\frac{\pi}{2}$	$\frac{2\pi}{3}$	$\frac{3\pi}{4}$	π	$\frac{5\pi}{4}$	$\frac{3\pi}{2}$	$\frac{7\pi}{4}$	$\frac{11\pi}{6}$	2π	$\frac{9\pi}{4}$	$\frac{5\pi}{2}$
y													



3. $y = \tan\theta$

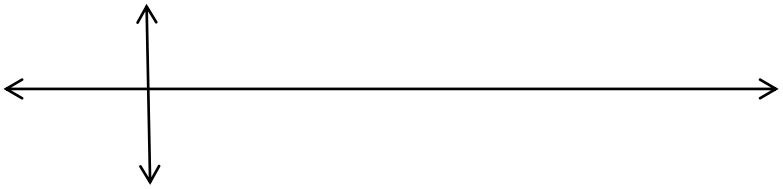
θ	0	$\frac{\pi}{4}$	$\frac{\pi}{2}$	$\frac{2\pi}{3}$	$\frac{3\pi}{4}$	π	$\frac{5\pi}{4}$	$\frac{3\pi}{2}$	$\frac{7\pi}{4}$	$\frac{11\pi}{6}$	2π	$\frac{9\pi}{4}$	$\frac{5\pi}{2}$
y													



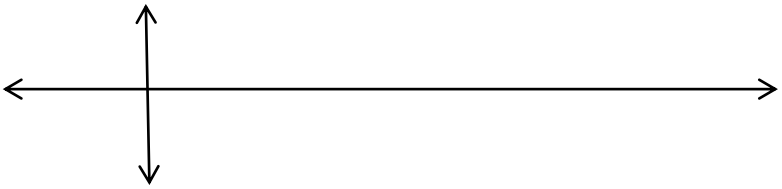
Graph the key points and characteristics for the following:

4. $y = 2\sin x$

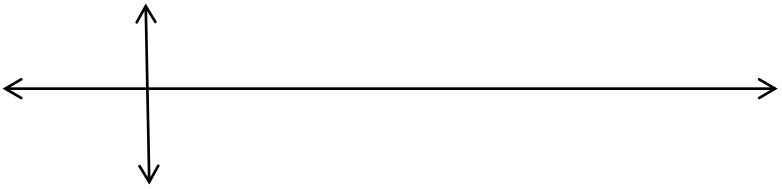
5. $y = \frac{1}{2}\cos x$



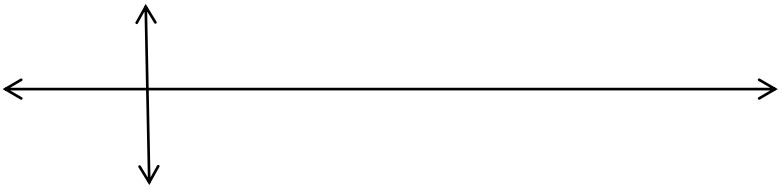
6. $y = \sin 2x$



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



8. $y = -\cos x$



9. $y = \tan\frac{x}{4}$