

Section 7.7b: Combinations of Trig Graphs

• Combinations of trig Functions

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

$$\text{Per} = \underline{2\pi} \quad \text{Per} = \pi$$

$$\text{Per} = 2\pi$$

combined is the least common multiple

$$y = \underline{2} \sin 6x + \underline{\sin} 4x$$

$$\frac{2\pi}{6} = \frac{\pi}{3}$$

$$\frac{2\pi}{4} = \frac{\pi}{2}$$

combined: π

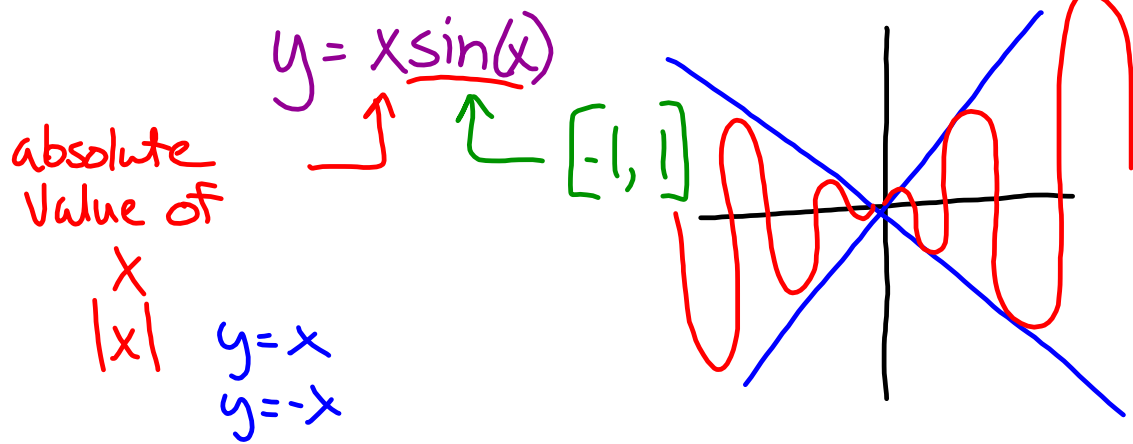
Combinations of algebraic & Trig Functions

$$y = \underline{x} + \cos x \quad \text{or} \quad y = \sin x - \underline{\sqrt{x}}$$

These will generally not be periodic
(won't repeat)

Damped Trig Graphs

multiply by Algebraic Functions



$y = \frac{1}{x} \cos x$

$|\frac{1}{x}|$

