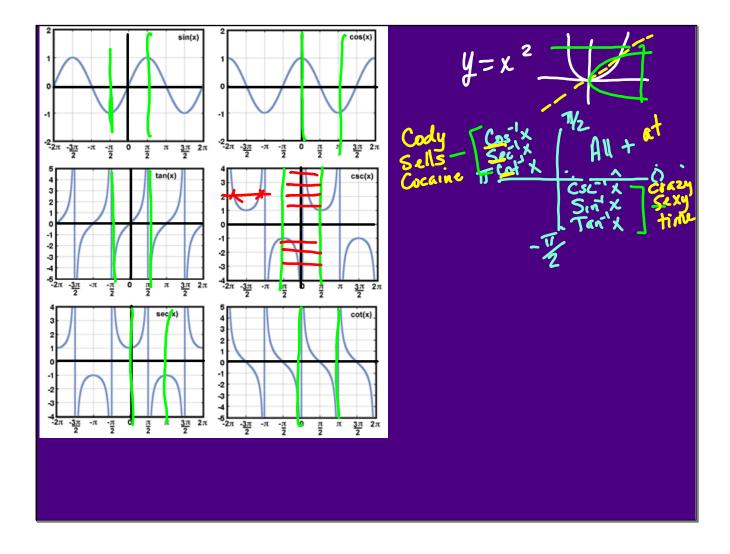
## Inverse Trig Functions $y = x^3 + 4$ $x = y^2 + 7$ $\sqrt{x} - 4 = \sqrt{x^3}$ $0 = \sin^2 y$ $0 = \sin^$



Answers are angles - always to redrans.

Cos<sup>-1</sup> 
$$(\frac{\sqrt{2}}{2}) = \frac{\pi}{4}$$

Cos<sup>-1</sup>  $(-\frac{\sqrt{3}}{2}) = \frac{\pi}{4}$ 

Arcsec  $(-1) = \pi$ 

Arcsec  $(-1) = \pi$ 

$$\cos \left( \frac{7a^{-1}\sqrt{3}}{3} \right)$$

$$\cos \left( \frac{\theta}{\theta} \right)$$

$$\cos \left( \frac{\pi}{4} \right)$$

$$\cos \left( \frac{\pi}{4} \right)$$

$$= \frac{\sqrt{2}}{\sqrt{2}}$$

$$= \frac{2}}{\sqrt{2}}$$

$$= \frac{\sqrt{2}}{\sqrt{2}}$$

$$= \frac{\sqrt{2}}{\sqrt{2}}$$

$$=$$

$$Sin (2 Arccos(\frac{2}{3})) \stackrel{?}{=} Cos(Arctan(\frac{1}{3}) - Arcso(\frac{1}{3})) \stackrel{?}{=} Cos(Arctan(\frac{1}{3}) - Arcso(\frac{1}{3$$

Inverse TRIG EQUATIONS — Has = sign

Solve for x.

$$y = 3\sin(\frac{2}{3}x) - 4$$

2) Switch variables using an inverse.

 $y + y = \sin(\frac{2}{3}x)$ 

3) Check if needed

 $3\pi + 4Tan^{2}y = 2\pi$ 
 $-3\pi$ 
 $4Tan^{2}y = -\pi$ 
 $-3\pi$ 
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 $-3\pi$ 
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 $-3\pi$ 
 $-3\pi$