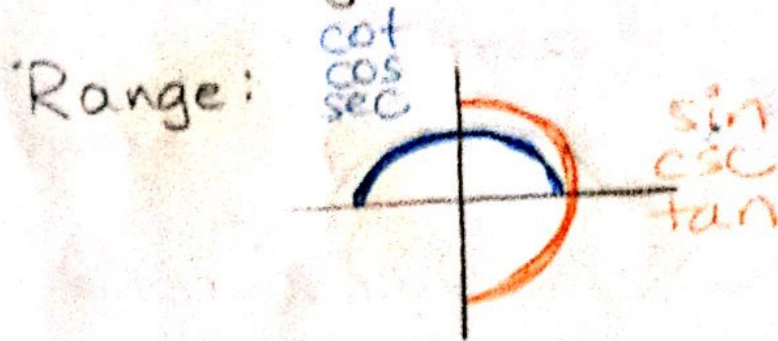


5.6 Inverse Trig Functions

* Chart on Page 371
(domain/range of inverse trig functions)



Evaluate:

$$1) \sin^{-1}(0) \\ = 0$$

$$2) \tan^{-1}(1) \\ = \pi/4$$

$$3) \tan^{-1}(-1) \\ = -\pi/4$$

$$4) \cos^{-1}\left(-\frac{1}{2}\right) = \\ = 2\pi/3 \checkmark$$

$$5) \sin^{-1}\left(-\frac{\sqrt{2}}{2}\right) \\ = -\pi/4 \checkmark$$

$$6) \cos^{-1}\left(\frac{1}{2}\right) \\ = \pi/3 \checkmark$$

$$7) \operatorname{arccot}(1) \\ = \frac{1}{\tan^{-1}(1)} = \frac{4}{\pi} \checkmark$$

$$8) \operatorname{arccos}(-0.628) \\ = 2.250 \checkmark$$

$$\frac{1}{\frac{\pi}{4}} = \frac{4}{\pi}$$

$$\frac{\cos^{-1}(1)}{\sin^{-1}(1)}$$