4.7 Inverse Trigonometric Functions

Name: Date: May 23, 2013

P 10. Evaluate arctan(1)
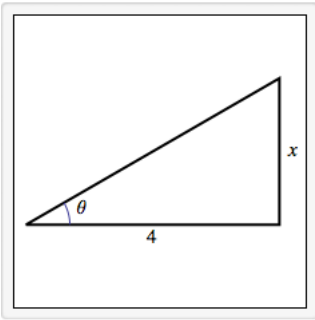
P 11. Evaluate

$$\cos^{-1}\left(-\frac{\sqrt{3}}{2}\right)$$

P 12. Evaluate

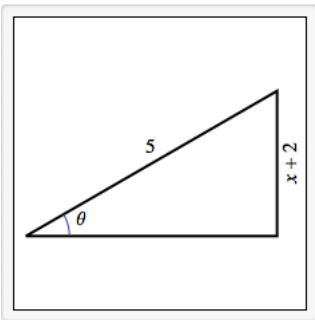$$\sin^{-1}\left(-\frac{\sqrt{2}}{2}\right)$$
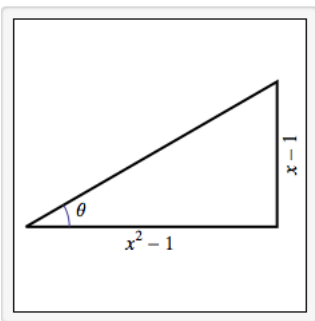
P 19. Evaluate

$$\tan^{-1} 0$$

P 43. Use an inverse function to write θ as a function of x.

P 45. Use an inverse function to write θ as a function of x.

P 48. Use an inverse function to write θ as a function of x.

P 50. Evaluate
$$\tan(\arctan(\pi/4))$$

P 54. Evaluate
$$\arccos\left(\cos\frac{7\pi}{2}\right)$$

P 58. Evaluate
$$\sin\left(\cos^{-1}\frac{\sqrt{5}}{5}\right)$$

P 66. Evaluate
$$\sec\left[\sin^{-1}\left(-\frac{\sqrt{2}}{2}\right)\right]$$

P 85. Sketch a graph of
$$y = 2\arccos x.$$

P 88. Sketch a graph of
$$y = \frac{\pi}{2} + \arctan x.$$