



31.  $\arcsin(3x-\pi) = \frac{1}{2}$

$$3x-\pi = \sin \frac{1}{2}$$

$$3x-\pi = .479$$

$$x = \frac{\sin \frac{1}{2} + \pi}{3}$$

$$x = 1.207$$

32.  $\arctan(2x-5) = -1$

$$2x-5 = \tan(-1)$$

$$x = \frac{\tan(-1) + 5}{2}$$

$$x = 1.721$$



33.  $\arcsin \sqrt{2x} = \arccos \sqrt{x}$

$$\frac{\sqrt{2x}}{\sqrt{2x}} = \frac{\sin(\arccos \sqrt{x})}{\sqrt{2x}}$$

$$\sqrt{2x} = \sqrt{1-x^2}$$

$$2x = 1-x^2$$

$$x^2 + 2x - 1 = 0$$

$$x = -1.809 \quad x = .809$$