Chapter 4 Extra Practice

Calculate the exact value of the inverse function geometrically by drawing a picture. Assume the principal branch in all cases.

1. $\tan((cos^{-1}\frac{-4}{5}))$ 2. $\sin((tan^{-1}\frac{-3}{4}))$

3. $\cos((sin^{-1}\frac{8}{17}))$ 4. $\sec((sin^{-1}\frac{-5}{13}))$

Solve algebraically.

5. $tan^{2}θ=2tanθ$ $θ\in [0,360°]$

6. 4sin(x – 3) = 1 $x\in [0, 4π]$

7. $0=2cos^{2}θ-3cosθ+1 θ\in [0, 720°]$

8. Write parametric equations for this ellipse.



9. This shows y = arcsin x

1. Shade y = $sin^{-1}x$
2. Give the range of y = $sin^{-1}x$

10. Write parametric equations you would put in

 your calculator to graph y = arccos x

11. Eliminate the parameter T

 x = -3 + 2cosT

 y = 1 + 4sinT