

## Worksheet #61

## Answers

- 1)  $(5, -\pi/2) = (5, 3\pi/2) = (-5, \pi/2)$   
2)  $(-3, 5\pi/4) = (-3, 13\pi/4) = (3, \pi/4)$   
3)  $(2, 7\pi/6) = (2, 19\pi/6) = (-2, \pi/6)$   
4)  $(-4, -3\pi/2) = (-4, \pi/2) = (4, -\pi/2)$   
5)  $(-2, 30^\circ) = (-2, 390^\circ) = (2, 210^\circ)$   
6)  $(5, 120^\circ) = (5, 480^\circ) = (-5, 300^\circ)$   
7)  $(4, -225^\circ) = (4, 135^\circ) = (-4, -45^\circ)$   
8)  $(-3, 115^\circ) = (-3, 475^\circ) = (3, 295^\circ)$

9)  $f(x) = \frac{(x-1)(x-7)}{(x-1)(x+4)}$

hole at  $(1, -6/5)$

vertical asymptote:  $x = -4$

horizontal asymptote:  $y = 1$

10)  $x(x+5) = 14$   
 $x^2 + 5x - 14 = 0$   
 $(x+7)(x-2) = 0$   
 $x = \{-7, 2\} \quad x = 2$