

King Fahd University of Petroleum and Minerals
Math 001
Quiz (2.1,2.2)

Name: _____, ID#: _____,
Sec#: _____

1-Find the center and the radius of the following circle: $x^2 + y^2 - 2x + 2y + \frac{7}{4} = 0$.

2-Find an equation of a circle that has a diameter with endpoints $(2, 3)$ and $(-4, 11)$

3-Determine the domain of the function $f(x) = \frac{1}{\sqrt{x+4}}$

4) Let $f(x) = \begin{cases} |x|, & \text{if } x \leq 1 \\ 2, & \text{if } x > 1 \end{cases}$. Then find the following:

a) Graph $f(x)$

b) State the domain

c) Insert solid circle or hollow circle where necessary to indicate the true nature of the function.

5) Does the set $\{(5, 10), (3, -2), (4, 7), (5, 8)\}$ of the ordered pairs (x, y) define y as a function of x .