College Algebra
Name:
Weekly Quiz 1

## No Work $\Leftrightarrow$ No Points

Use Pencil Only $\Leftrightarrow$ Be Neat \& Organized

1. (3 points) Graph using the intercept method: $3 x-4 y=-12$

2. (3 points) Graph using the $y$-int and the slope: $f(x)=-\frac{2}{3} x-2$

3. (5 points) Draw $(x-2)^{2}+(y+3)^{2}=16$. Give domain and range in interval notation.

4. 
5. (5 points) Find the equation of the circle in standard form $(x-h)^{2}+(y-k)^{2}=r^{2}$ with endpoints $(-3,4)$ and $(5,6)$ of its diameter.
6. $\qquad$
7. (6 points) Find all intercept for the graph of $y=3 x^{2}-2 x-5$.
8. 
9. (8 points) Solve:

$$
\left\{\begin{array}{l}
x+2 y+z=0 \\
2 x-y-z=5 \\
x+y-2 z=1
\end{array}\right.
$$

6. 
7. (6 points) Find and simplify $\frac{f(x+h)-f(x)}{h}$ for $f(x)=x^{2}-4 x$, then evaluate the result for $h=0$.
8. Consider the graph of the function $f(x)$ below:

(a) (3 points) Give its domain in interval notation.
(a)
(b) (3 points) Give its range in interval notation.
(b) $\qquad$
(c) (2 points) Find all $x$ - intercepts, if any.
(c) $\qquad$
(d) (2 points) Find all $y$-intercepts, if any.
(d) $\qquad$
(e) (4 points) Graph $-f(x+2)-1$ below.

