| NAME: | PERIOD: <br> Round 1 A-Graph |
| :---: | :---: |
|  | Evaluate: $\begin{aligned} & f(-4)= \\ & f(-3)= \\ & f(-1)= \\ & f(2)= \end{aligned}$ |
| Zeros: | y-intercept: |
| Domain: | Range: |
| Extrema: | Inc/Dec/Constant: |
| Continuity: | End Behavior: $\begin{aligned} & x \rightarrow-4, y \rightarrow \\ & x \rightarrow \infty, y \rightarrow \end{aligned}$ |

Equation:

$$
f(x)=\left\{\begin{array}{l}
-\mid x+- \\
-\left(x_{-}\right)^{2}
\end{array}\right.
$$

$\qquad$

Equation:

$$
f(x)=\left\{\begin{array}{l}
\left(x_{-}\right)^{2} \\
\sqrt{x}
\end{array}\right.
$$




| NAME: | PERIOD: | Round 1 <br> C-Graph |
| :---: | :---: | :---: |
|  | Evaluate: $\begin{aligned} & f(-3)= \\ & f(-2)= \\ & f(2)= \\ & f(3)= \end{aligned}$ |  |
| Zeros: | y-interce |  |
| Domain: | Range: |  |
| Extrema: | Inc/Dec/ |  |
| Continuity: | End Behavi $\begin{aligned} & x \rightarrow-1 \\ & x \rightarrow 3 \end{aligned}$ |  |

Equation:

$$
f(x)=\left\{\begin{array}{l}
\left(x_{\ldots}\right)^{3} \\
|x|
\end{array}\right.
$$



Equation:

$$
f(x)=\left\{\begin{array}{l}
-\frac{x}{x^{2}}, \\
x_{x}
\end{array}\right.
$$


$\left.\begin{array}{|l|l|c|}\hline \text { NAME: } & \text { PERIOD: } & \text { Round 2 } \\ \text { D-Equation }\end{array}\right\}$

Work for finding zeros is shown. Circle the zeros and $y$-intercept
cross out any that are restricted from the domain.
(show work):

$$
\begin{array}{ccc}
0=-x-2 & 0 & =-x^{2}+4 \\
x=-2 & 0=x-2 \\
& \sqrt{x^{2}} & =\sqrt{4} \\
x & x=2 \\
x & = \pm 2 & \\
& x=2 & x=-2
\end{array}
$$




Equation:

$$
f(x)=\left\{\begin{array}{l}
-x \\
-\sqrt{x}
\end{array}\right.
$$




| NAME: | PERIOD: | Round 2 <br> F-Equation |
| :---: | :---: | :---: |
| $f(x)=\left\{\begin{array}{c} 2\|x+3\|-2, x<-1 \\ 2,-1 \leq x<1 \\ -2 x, x \geq 1 \end{array}\right.$ |  |  |
| Work for finding zeros is shown. Circle cross out any that are restricted from the | he zeros and domain. $\begin{gathered} \frac{0}{-2}=\frac{-2 x}{-2} \\ x=0 \end{gathered}$ | y-intercept <br> (show work): |
| Evaluate: $f(-3)=$ $f(-1)=$ $f(1)=$ $f(2)=$ | Graph: $\left[\begin{array}{l\|l\|l\|l\|l} \hline & & & & \\ \hline & & & \\ \hline & & & & 4 \\ \hline & & & & 3 \\ \hline & & & & 2 \\ \hline & & & & 1 \\ \hline-5 & -4 & -3 & -2 & -1 \\ \hline & & & & -1 \\ \hline & & & & -2 \\ \hline & & & & -3 \\ \hline & & & & -4 \\ \hline & & & & -5 \end{array}\right.$ |  |
| Domain: | Range: |  |
| Extrema: | Inc/Dec/Consta | ant: |
| Continuity: | End Behavior: $\begin{aligned} & x \rightarrow-\infty, y \\ & x \rightarrow \infty, y- \end{aligned}$ |  |

