

T/PC

Fcn Fams

For each equation, make a sketch of the graph. Be sure it has the correct shape and goes through the correct quadrants, depending if a is $+$ or $-$.

Then find:

- Domain + range

- Increasing + Decreasing intervals

- $x + y$ intercepts

- Equations of asymptotes

- End Behavior

- Symmetry

- Family name

1. $f(x) = -3\sqrt[5]{x}$

2. $f(x) = 5|x|$

3. $f(x) = \frac{1}{2}x$

4. $f(x) = -4\sqrt[4]{x}$

5. $f(x) = -\frac{2}{3}|x|$

6. $f(x) = 2\sqrt[3]{x}$

7. $f(x) = -8x$

8. $f(x) = 3\sqrt{x}$

Do this on a separate sheet of looseleaf. Turn in what you have done at the end of the hour. Whatever you don't finish in class is homework.