## 1-5: Parent Functions and Transformations Homework

1. Identify the parent functions:
a.

d.

b.

e.

c.

f.

2. For the following functions, name the parent function and describe the domain, range, symmetry, and whether the function is even, odd, or neither.
a. $\quad f(x)=|x|$
b. $f(x)=x^{3}$
c. $f(x)=\frac{1}{x}$
3. Identify the parent function of each:
a. $g(x)=-5\lfloor x-2\rfloor$
b. $g(x)=\frac{\sqrt{x+3}}{4}$
c. $g(x)=\frac{4}{x+1}$
4. Using your graphing calculator, describe the asymptotes and point of discontinuity of the graph of the function

$$
f(x)=\frac{1}{x^{2}-3 x-4}
$$

