1. [6 points] Circle a possible equation for the following graphs. Here, $a$ is a positive constant. No justification is required.
a. [2 points]


$$
f(x)=\frac{x+1}{x+a} \quad f(x)=\frac{x}{x-a} \quad f(x)=\frac{x}{x+a} \quad f(x)=\frac{x+1}{x-a}
$$

b. [2 points]


$$
f(x)=(x-a)^{4}+a \quad f(x)=x^{2}+a \quad f(x)=(x-a)^{3}+a \quad f(x)=(x+a)^{2}+a
$$

c. [2 points]


$$
f(x)=(x-a) x^{2} \quad f(x)=-(x-a) x^{2} \quad f(x)=-(x-a) x \quad f(x)=-(x-a)^{2} x
$$

