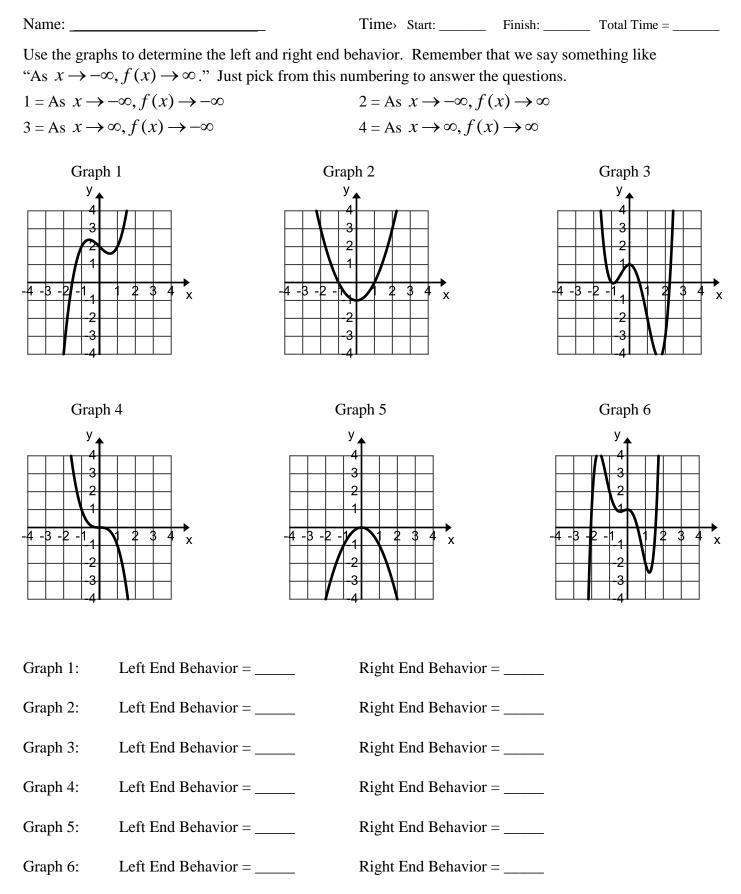
## **3-3 End Behavior**



For 7-12, use DESMOS and graph the functions and determine the left end behavior and the right end behavior. Again, use this numbering to answer the problems.

 $1 = x \to -\infty, f(x) \to -\infty \qquad 2 = x \to -\infty, f(x) \to \infty$  $3 = x \to \infty, f(x) \to -\infty \qquad 4 = x \to \infty, f(x) \to \infty$ 

7.	$f(x) = -5x^4 - 7x + 1$	Left End Behavior =	Right End Behavior =
8.	$f(x) = 5x^2 - 6$	Left End Behavior =	Right End Behavior =
9.	$f(x) = -x^3 + 2x - 1$	Left End Behavior =	Right End Behavior =
10.	$f(x) = x^9$	Left End Behavior =	Right End Behavior =
11.	$f(x) = x^{24} + 2$	Left End Behavior =	Right End Behavior =
12.	$f(x) = -4x^{11} + 3$	Left End Behavior =	Right End Behavior =