

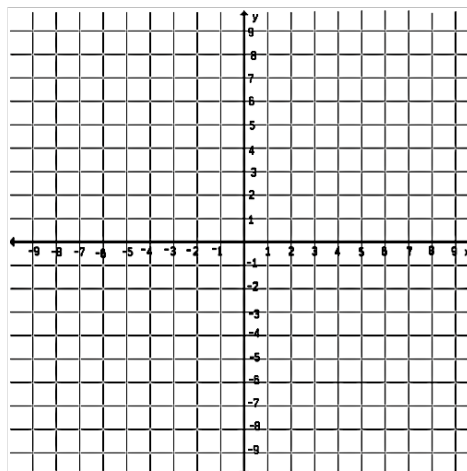
Graphing Polynomials

1. Given x-intercepts at -7 , 8 , and 3 and that the highest degree is odd and the leading coefficient is negative...

- List the factors of the polynomial.
- Write the possible equation of $g(x)$ in factored form.
- Draw a sketch of $g(x)$
- Identify the end behavior of $g(x)$

As $x \rightarrow \infty, g(x) \rightarrow$

As $x \rightarrow -\infty, g(x) \rightarrow$



2. Given the table of $t(x)$,

x	$t(x)$
-4	336
-3	90
-2	0
-1	-12
0	0
1	6
2	0
3	0
4	48

- Identify the Zeros
- List Factors of $t(x)$
- Highest Degree: even or odd
- Leading Coefficient: $+$ or $-$
- Identify the end behavior of $t(x)$
 As $x \rightarrow \infty, t(x) \rightarrow$

 As $x \rightarrow -\infty, t(x) \rightarrow$
- Create a sketch of the function.

