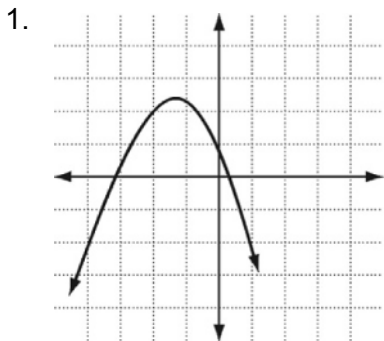


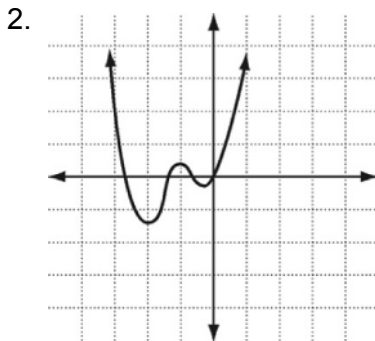
LESSON
5-2

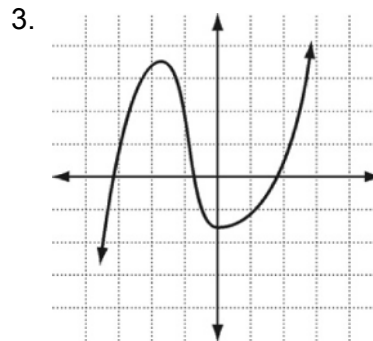
Graphing Polynomial Functions

Practice and Problem Solving: A/B

Identify whether the function graphed has an odd or even degree and a positive or negative leading coefficient.







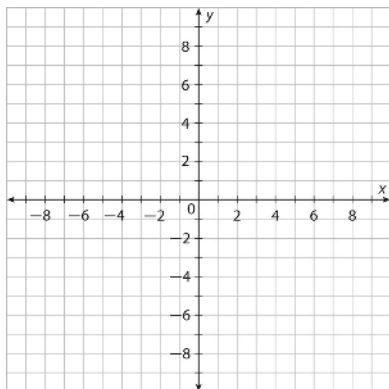
Use a graphing calculator to determine the number of turning points and the number and type (global or local) of any maximum or minimum values.

4. $f(x) = x(x - 4)^2$

5. $f(x) = -x^2(x - 2)(x + 1)$

Graph the function. State the end behavior, x-intercepts, and intervals where the function is above or below the x-axis.

6. $f(x) = -(x - 1)^2(x + 3)$



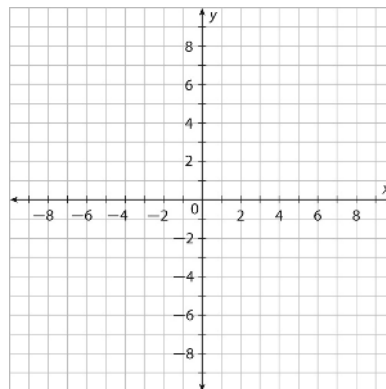
End behavior: _____

x-intercepts: _____

Above x-axis: _____

Below x axis: _____

7. $f(x) = (x + 2)(x - 3)(x - 1)$



End behavior: _____

x-intercepts: _____

Above x-axis: _____

Below x-axis: _____