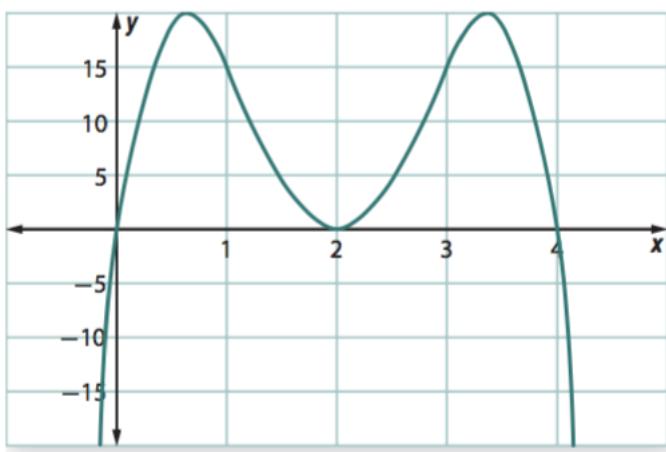
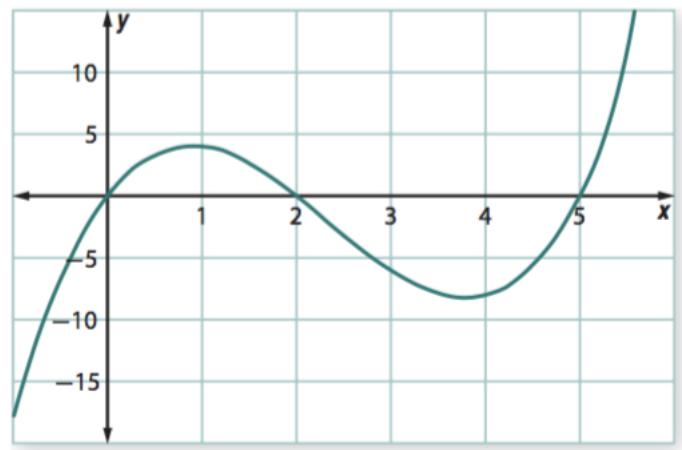
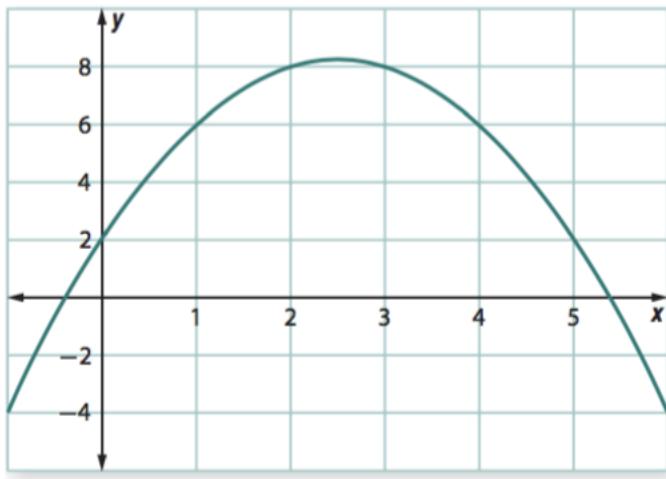


## Polynomial Functions Worksheet

Date \_\_\_\_\_

1. Use your calculator to find the equations for each curve. In each case list the points used in finding the model. Give the degree of each function.



2. Graph each function and then calculate or estimate coordinates of all:

- Local Maximum points
- Local Minimum points
- x-intercepts
- y-intercepts

a.  $f(x) = 2x^2 + 4x + 1$

b.  $g(x) = x^3+2x^2+3x+7$

c.  $h(x) = x^3 - 6x^2 + 12x - 8$

d.  $s(x) = x^4 - 8x^3 + 20x^2 - 16x$