

## Exercise Set 4.1: Polynomial Functions

Sketch a graph of each of the following functions:

1.  $f(x) = x^2$
2.  $f(x) = x^3$
3.  $f(x) = x^4$
4.  $f(x) = x^5$
5.  $f(x) = x^2$  where restricted to  $x \geq 0$
6.  $f(x) = x^3$  where restricted to  $x \geq 0$

Answer the following:

7. The graph of  $f(x) = x^3 + 3x^2 + 2x + 1$  has a minimum at  $x = 0$ ,  $x = 1$ , and  $x = 2$ .  
 (a) As we increase  $x$  by increasing the power  $n \rightarrow 1$ , the graph resembles the graph of what function? (Choose one.)  
 $f(x) = x^2$      $f(x) = x^3$      $f(x) = x^4$
8. As we increase  $x$  by increasing the power  $n \rightarrow 4$ , the graph resembles the graph of what function? (Choose one.)  
 $f(x) = x^2$      $f(x) = x^3$      $f(x) = x^4$
9. If  $f(x)$  were to be restricted to  $x \geq 0$ , compare to the leading term of the polynomial model for (Choose one, do not write the model) and the polynomial  $f(x) = x^2$ ,  $x^3$ ,  $x^4$ ,  $x^5$ ,  $x^6$ ,  $x^7$ ,  $x^8$ ,  $x^9$ .
10. The graph of  $f(x) = x^3 + 3x^2 + 2x + 1$  has a minimum at  $x = 0$ ,  $x = 1$ , and  $x = 2$ .  
 (a) As we increase  $x$  by increasing the power  $n \rightarrow 1$ , the graph resembles the graph of what function? (Choose one.)  
 $f(x) = x^2$      $f(x) = x^3$      $f(x) = x^4$
11. As we increase  $x$  by increasing the power  $n \rightarrow 4$ , the graph resembles the graph of what function? (Choose one.)  
 $f(x) = x^2$      $f(x) = x^3$      $f(x) = x^4$
12. If  $f(x)$  were to be restricted to  $x \geq 0$ , compare to the leading term of the polynomial model for (Choose one, do not write the model) and the polynomial  $f(x) = x^2$ ,  $x^3$ ,  $x^4$ ,  $x^5$ ,  $x^6$ ,  $x^7$ ,  $x^8$ ,  $x^9$ .

Sketch each of the polynomial functions below with its graph.

13.  $f(x) = x^3 + 3x^2 + 2x + 1$
14.  $g(x) = x^3 + 3x^2 + 2x + 1$
15.  $h(x) = x^3 + 3x^2 + 2x + 1$
16.  $k(x) = x^3 + 3x^2 + 2x + 1$
17.  $m(x) = x^3 + 3x^2 + 2x + 1$
18.  $n(x) = x^3 + 3x^2 + 2x + 1$

Observe that if



# Lesson 6 8 Transforming Polynomial Functions

**R Bogdan**



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