

Exercise Set 4.1: Polynomial Functions

Sketch a graph of each of the following functions:

- a. $f(x) = x^2$
- b. $f(x) = x^3$
- c. $f(x) = x^4$
- d. $f(x) = x^5$
- e. $f(x) = x^2$ where restricted to $x \geq 0$
- f. $f(x) = x^3$ 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

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