

Practice

Degree, Type of Degree, and Sign of Lead Coefficient

$$f(x) = -3x^3 + 7x^2 - 5x + 5$$

$$g(x) = 2x^8 + 5x - 2$$

$$h(x) = 3x^2 - 2x^4 - 7x^3 + 5 - 1x$$

Practice

Degree, Type of Degree, and Sign of Lead Coefficient

$$f(x) = \ominus 3x^{\textcircled{3}} + 7x^2 - 5x + 5$$

3rd Degree, ODD, Negative

$$g(x) = +2x^{\textcircled{8}} + 5x - 2$$

8th Degree, Even, Positive

$$h(x) = 3x^2 \ominus 2x^4 - 7x^3 + 5 - 1x$$

4th Degree, Even, Negative

Practice

Degree, Type of Degree, and Sign of Lead Coefficient

$$f(x) = 3x^3(x+1)^2(x-4)(x-1)$$

$$g(x) = -2(x+5)(x-4)^3(x-1)$$

$$h(x) = -x(x+6)^3(x+4)(x-5)$$

Practice

Degree, Type of Degree, and Sign of Lead Coefficient

$$f(x) = +3x^3 (x+1)^2 (x-4)'(x-1)' \quad 3+2+1+1=7$$

7th Degree, ODD, Positive

$$g(x) = -2(x+5)'(x-4)^3 (x-1)' \quad 1+3+1=5$$

5th Degree, ODD, Negative

$$h(x) = -x'(x+6)^3 (x+4)'(x-5)' \quad 1+3+1+1=6$$

6th Degree, EVEN, Negative