

MODULE 4 - CLASS EXAMPLES

1. Identify the function as a power function, a polynomial function, or neither.

a. $f(x) = x^7$

b. $f(t) = (t^3)^4$

c. $g(x) = x^2 - x^3$

d. $h(v) = \frac{v^3}{v^4 - 3}$

e. $g(s) = 3s(s + 4)(s + 2)(s - 3)^3$

f. $p(u) = 4^{u+3}$

2. Find the degree and leading coefficient for the given polynomial

a. $-3x^4 + x^7 - 3x^9 - x^2 + 2$

b. $x(4 - x^2)(2x + 1)$

3. Given the function below, find the intercepts of the function.

a. $f(t) = 4(t + 1)(t - 2)(t + 3)$

b. $f(x) = x(x^2 - 2x - 8)$

4. Determine the least possible degree of the polynomial function shown.

