

PC40S Mental Math: Polynomial Functions

1.) State the degree of the polynomial expression:

a.) $f(x) = 2x^5 + x^2 - 100$ _____

b.) $f(x) = 5$ _____

2.) What type of function is

a.) $f(x) = -x^4 + 3x^2 - 7$ _____

b.) $f(x) = 3 - 2x + 5x^3 + 3x^2 - 4$ _____

3.) State the maximum number of turns in the graph of

a.) $f(x) = -3x^5 + 2x^3 - 1$ _____

b.) $f(x) = -x^2 - 3$ _____

4.) State the y-intercept of

a.) $f(x) = x^3 - 2x^2 - 27$ _____

b.) $f(x) = 2$ _____

5.) Describe the left/right behavior of

a.) $f(x) = -x^6 + x^3 - x + 5$ _____

b.) $f(x) = 4x^5 - 2x^3 + 3x^2 - 1$ _____

