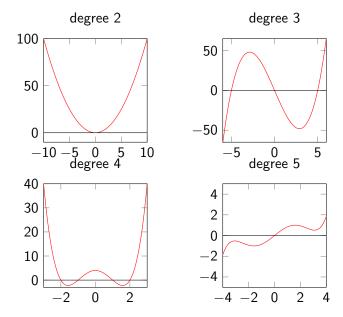
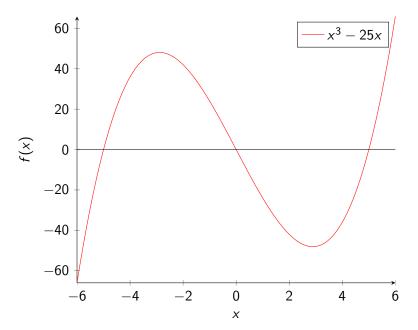
Positive and Negative Intervals of Polynomials

April 28, 2020





 $x^3 - 25x$

$$f(x) = x^3 - 25x = 0$$

$$f(x) = x^3 - 25x = 0$$
$$x(x^2 - 25) = 0$$

$$f(x) = x^3 - 25x = 0$$

 $x(x^2 - 25) = 0$
 x 5

$$f(x) = x^3 - 25x = 0$$
$$x(x^2 - 25) = 0$$
$$x \qquad 5$$
$$x \qquad -5$$

$$f(x) = x^3 - 25x = 0$$

$$x(x^2 - 25) = 0$$

$$x \qquad 5$$

$$x \qquad -5$$

$$-5x$$

$$f(x) = x^3 - 25x = 0$$

$$x(x^2 - 25) = 0$$

$$x \qquad 5$$

$$x \qquad -5$$

$$-5x + 5x = 0$$

$$f(x) = x^{3} - 25x = 0$$

$$x(x^{2} - 25) = 0$$

$$x 5$$

$$x -5$$

$$-5x + 5x = 0$$

$$x(x + 5)(x - 5) = 0$$

$$f(x) = x^{3} - 25x = 0$$

$$x(x^{2} - 25) = 0$$

$$x 5$$

$$x -5$$

$$-5x + 5x = 0$$

$$x(x + 5)(x - 5) = 0$$

$$f(0) = (0)(5)(-5) = 0$$

$$f(x) = x^{3} - 25x = 0$$

$$x(x^{2} - 25) = 0$$

$$x 5$$

$$x -5$$

$$-5x + 5x = 0$$

$$x(x + 5)(x - 5) = 0$$

$$f(0) = (0)(5)(-5) = 0$$

$$f(-5) = (-5)(0)(-10) = 0$$

$$f(5) = (5)(10)(0) = 0$$

$$f(x) = x^{3} - 25x = 0$$

$$x(x^{2} - 25) = 0$$

$$x 5$$

$$x -5$$

$$-5x + 5x = 0$$

$$x(x + 5)(x - 5) = 0$$

$$f(0) = (0)(5)(-5) = 0$$

$$f(-5) = (-5)(0)(-10) = 0$$

$$f(5) = (5)(10)(0) = 0$$

