2.
$$f'(x) = -2x + 3$$

$$-2x+3>0 => -2x>-3 => x + \frac{3}{2}$$

*	-∞ 3/2	+0
f'	+ \$	_
	7813	
f	- ∞	- 00

3.
$$f'(x) = 3x^2 - 3$$

$$34^{2}-3$$



$$3x^2-3$$
 $\alpha=3>0$ $b=0$ $c=-3$

$$\Delta = 0^2 - 4 \times 3 \times (-3) = 36 > 0$$



$$x_1 = \frac{0-b}{b} = -1$$
 $x_2 = \frac{0+b}{b} = 1$

$$\chi_2 = \frac{0+b}{b} = 1$$

$$\lim_{x \to -\infty} f(x) = -\infty$$

 $f(-1) = -1+3+1 = 3$
 $f(1) = -1-3+1 = -3$
 $\lim_{x \to -\infty} f(x) = +\infty$