Quiz 5 - Wednesday, July 28

Name:

Let $f(x) = 2x^3 - 3x^2 - 12x + 1$, defined on $(-\infty, \infty)$.

1. (2 points) Find the critical points (i.e the critical numbers) of f.

2. (2 points) Find the intervals on which f increases and decreases.

3. (2 points) Find the x values where the local minimum and maximum values of f occur.

4.	(3 points) Fi inflection poi	nd the intervants of f .	ls on which	f is concave	down and	concave up.	Find the
5.	(1 point) Doo	es f have an a	bsolute max	imum or min	imum? Jus	tify.	