

Present neatly on separate paper.
Justify for full credit. No Calculators.

Name _____ Score _____ 6 minutes
1)

If $f(x) = |x + 2|(x - 4)$, then the critical point(s) of f are
 $x =$

2)

If $x^2 + y^2 = 6$, then $\frac{d^2y}{dx^2} =$

3)

$\lim_{x \rightarrow 8} \frac{\sqrt[3]{x} - 2}{x - 8}$ is

4)

$\lim_{h \rightarrow 0} \frac{(10 + h)^3 - 1000}{h} =$

5)

The maximum value of $f(x) = x^3 + 3x^2 - 9x - 2$ on the interval $[0, 2]$ is

[Type text]

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