Quiz 6 Math 341

Name _____

Let $f(x) = x^3 - 2x^2 - x + 2$

(a) What is the 3rd Taylor polynomial $P_3(x)$ for f at $x_0 = 1$ (i.e., in powers of x - 1).

(b) Using the formula for the remainder $R_n(x) = \frac{f^{n+1}(c)}{(n+1)!}(x-x_0)^{n+1}$ explain why $R_3(x) = 0$.