

properly but (1) CE & n n -1 x 0 hom show that gran 1,5 ds , x, EE , x, -12. To show $x_0 \in \mathcal{E}$ (i.e. $f(x_0) = g(x_0)$)

And $f(x_0) = g(x_0)$ as $f(x_0) = g(x_0)$ $f(x_0) = g(x_0)$ $f(x_0) = g(x_0)$ $f(x_0) = g(x_0)$ $M \stackrel{\mathsf{M}}{=} \mathcal{E} = \mathcal{J}(x_n) = \mathcal{J}(x_n) \quad \forall n$ = t f (nn) = t g (nn) $\exists \int (x_0) = \int (x_0) \int_{x_0 \in I} A$ $\exists \int x_0 \in E$ $\exists \int (x_0) \int_{x_0 \in I} A$ $\exists \int x_0 \in E$ $\exists \int (x_0) \int_{x_0 \in I} A$ By show that every poly of odd segree with red well has at least one red root. Sol Let $p(x) = a_n x^{n-1} + \cdots + a_n x + a_n$ (n, y, odd) (n, y, odd) (n, y, odd) $= x^{n} \left[\frac{a_{n} + \frac{a_{n-1}}{x} + \dots + \frac{a_{1}}{x^{n-1}} + \frac{a_{0}}{x^{n}} \right]$ $= x^{n} \left[\frac{a_{n} + \frac{a_{n-1}}{x} + \dots + \frac{a_{1}}{x^{n-1}} + \frac{a_{0}}{x^{n}} \right]$ $= x^{n} \left[\frac{a_{n} + \frac{a_{n-1}}{x} + \dots + \frac{a_{1}}{x^{n-1}} + \frac{a_{0}}{x^{n}} \right]$ $= x^{n} \left[\frac{a_{n} + \frac{a_{n-1}}{x} + \dots + \frac{a_{1}}{x^{n}} + \frac{a_{0}}{x^{n}} \right]$ $= x^{n} \left[\frac{a_{n} + \frac{a_{n-1}}{x} + \dots + \frac{a_{1}}{x^{n}} + \frac{a_{0}}{x^{n}} \right]$ $= x^{n} \left[\frac{a_{n} + \frac{a_{n-1}}{x} + \dots + \frac{a_{1}}{x^{n}} + \frac{a_{0}}{x^{n}} \right]$ $= x^{n} \left[\frac{a_{n} + \frac{a_{n-1}}{x} + \dots + \frac{a_{1}}{x^{n}} + \frac{a_{0}}{x^{n}} \right]$ $= x^{n} \left[\frac{a_{n} + \frac{a_{n-1}}{x} + \dots + \frac{a_{1}}{x^{n}} + \frac{a_{0}}{x^{n}} + \frac{a_{0}}{x^{n}} \right]$ $= x^{n} \left[\frac{a_{n} + \frac{a_{n-1}}{x} + \dots + \frac{a_{1}}{x^{n}} + \frac{a_{0}}{x^{n}} + \frac{a_{0}}{x^{n}} + \frac{a_{0}}{x^{n}} + \frac{a_{0}}{x^{n}} \right]$ Up(x) = - 0 (< 0) b(p) < 0 < b(v) p(x) (t p(x) < 0 < Ut <math>p(x) y = 0 y =or by location of rook him 7 c ((-00,00) mejegne of buch met p(c) = 0

The case and o is sumilar.