



[04[2] continue] $[X_2 = \frac{1}{2}(3+\sqrt{9}+4/(2.27374.10^{-13})] = -3.00$ for x, it vill not work becaus it will result to 0 for 3 decimals will result to 0 for 3 0 3 + $\sqrt{9+4.8^{-14}}$ x $3+\sqrt{9+4.8^{-14}}$ x $3+\sqrt{9+4.8^{-14}}$ $3+\sqrt{9+4.8^{-14}}$ $X_1 = \frac{9 + 4.8 - 14.9}{2(3 + \sqrt{9 + 4.8 - 14.7})} = \frac{4.8 - 14.9}{2(3 + \sqrt{9 + 4.8 - 14.7})} = \frac{2.8 - 14.8 - 14.7}{3 + 3} = \frac{2.2 + 3.4 - 10.5}{3} = \frac{7.58 \cdot 10^4}{3}$ Answer $x_1 = 7.58 \cdot 10^4$ $x_2 = -3.00$

185 INNA WILLIAMS $g(x) = \frac{x+6}{3x-2}$ Solve g(x)=X X+6= X(3X-2) 3x2-3x265 X1=2 X2=-1 Answer: Fixed points are: (a) $g(x) = (2x-1)^{1/3} = 1$ $g'(x) = \frac{2}{3}(2x-1)^{-2/3} = \frac{2}{3\sqrt[3]{(2x-1)^2}}$ $g'(1) = \frac{2}{3\sqrt{2\cdot 11-1}} - \frac{2}{3}$ = x 1.91(1) 1= 3 40 => that g(x) is locally convergent to r=1 (B) g(x)=1 x3+1 2 =1 91(x)=== (3x2)====x2 [g((1))]=1.5>1 => g(x) diveoges





