Oct. 8 Math 418 Quiz 4 t. root at -2, 3,1 f(x)=a(mx+2)(x-1)2(x-3) 100=6804a 25 - 17014 $f(x) = \frac{1701}{25} (x+2)(x-1)^{2} (x-3)$ 2. $-3 \times^2 + 12 \times -9$ $\times +4 \left[-3 \times^3 + 0 \times^2 + 39 \times -36 \right]$ (-3x2+12x +9 $-3x^3-12x^2$ 12x2+39x-36 -3(x2-4x+3) = 12x2+48x -3(x-3)(x+1)-9x-36 P(x) = -3(x+4)(x-1)(x-3)-9x-380 $x \rightarrow -\infty$, $f(x) \rightarrow \infty$ x -> 00, f(x) ->-00 95