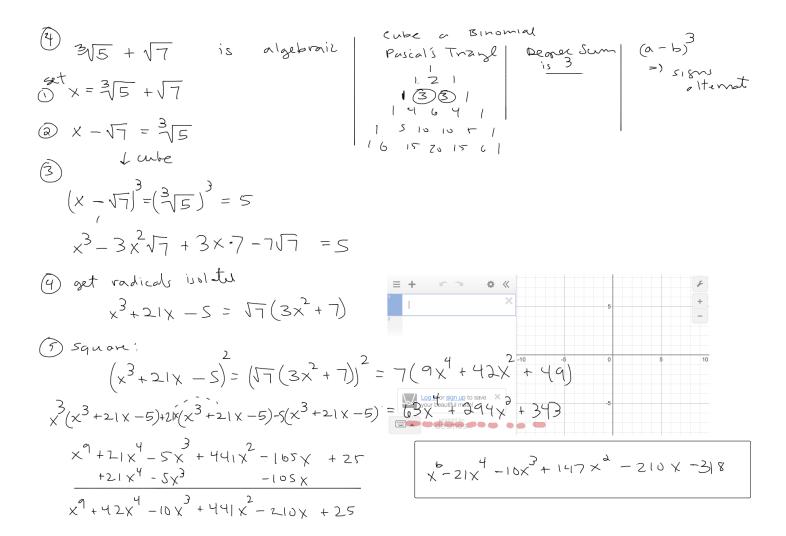
MA484 WIL 3 Frei

Algebraic Numbers  

$$x^{*}$$
 there exists"  
 $a47$  is algebraic  $b/c = 3$  ~ poly with coeffs "that kills' 247  
 $f(x) = x - 247$  kills 247  
 $f(x)$ 



$$\frac{1}{3\sqrt{5} + \sqrt{7}}$$
 is als.  

$$X = \frac{1}{3\sqrt{5} + \sqrt{7}}$$
 cross  $3\sqrt{5} \cdot \chi + \sqrt{7} \chi = 1$  repeat ...

$$\begin{aligned} & \#_{10} \\ & \#_{10} \\ & \#_{10} \\ & = (x-3)(x-4) \\ & \#_{10} \\ & \#_{10} \\ & = (x-3)(x-4) \\ & \#_{10} \\ & \#_{$$