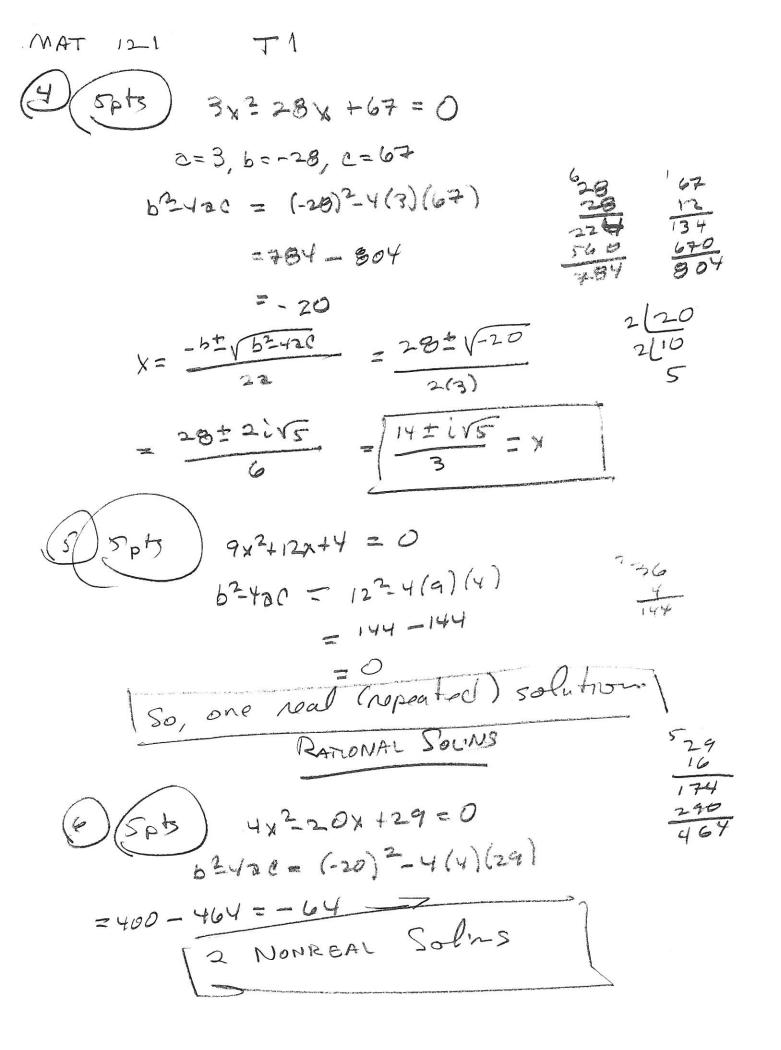
MAT 121 TEST 1 FAL, 2017
() (p) (s)
$$S_{X-1} = 3_{X+2}$$

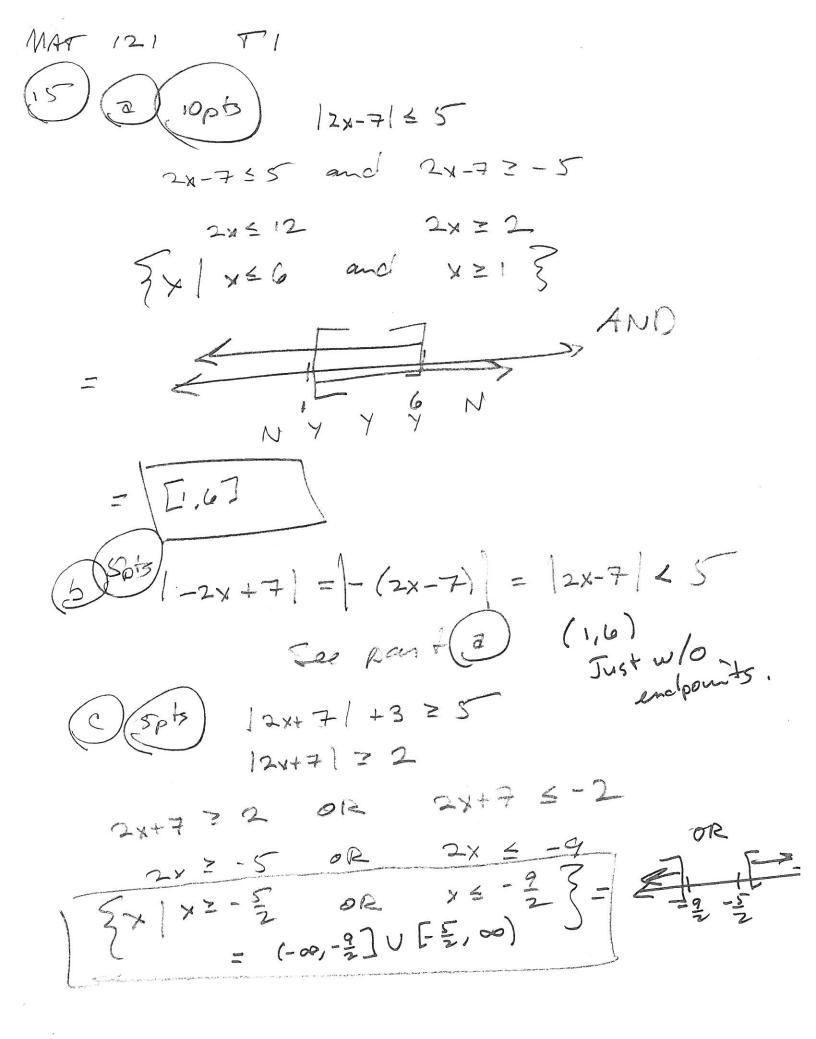
 $2_{X} = 3$
 $x = 3$
 $x = 3$
 $x = \frac{3}{2}$
(2) $\frac{2}{7} \times + \frac{12}{5} = \frac{1}{2}$ LCD = 2.5.7
 $\frac{2}{7} \times \frac{2.5}{7} + \frac{12}{5} \cdot \frac{2.7}{2.7} = \frac{1}{2} \cdot \frac{5.7}{5.7}$
 $\frac{20_{X} + \frac{160}{5}}{1.00} = \frac{3.5}{1.00}$
 $20_{X} = 35 - \frac{160}{5} = -\frac{133}{5}$
 $x = \frac{-133}{20}$
(3) $\frac{5}{5} + \frac{13}{5}$ $\frac{12}{5} + \frac{12}{5}$
 $x = \frac{1}{5} + \frac{12}{5}$



$$\begin{array}{rcl} MAT & 121 & T \\ \hline (2) & (av^{2} + 7) \\ & (ev^{2} + 7) \\ & (ev^{2$$

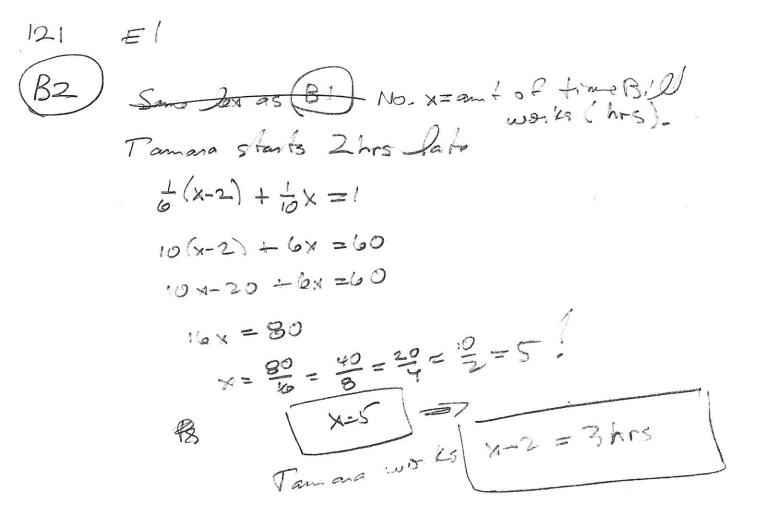
MAT 121 T / 503) x2+4x+9=0 X2+4× +22 = -9+4 $(x+2)^2 = -5$ X+2 = = + V-5 $x = -2 \pm i\sqrt{5}$ | $x \in \{2 - 2 \pm i\sqrt{5}\}$ Spt3) 5x2+6x-9=0) = 95 (x2+ = x $5(x^2+\frac{6}{5}x+(\frac{3}{5})^2)=9+5(\frac{6}{25})=9+\frac{6}{5}$ 5(x+3)2=54 2 54 $\left(\chi + \frac{3}{5}\right)^2 = \frac{5^{\gamma}}{25}$ 3/9 $x + \frac{3}{5} = \frac{1}{2} \sqrt{\frac{54}{25}} = \frac{1}{2} \frac{3\sqrt{6}}{5}$ Txe & -3=3/6 { X = -3±31/6

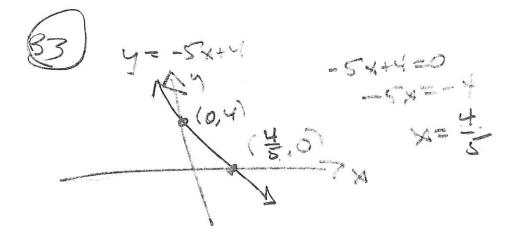
121 Spts 12 (x, y.) = 2 (5,-17) ZIN *p* to do this pissed 23(x-5) y = 19-5-3 23 × -61 = - X cular. perp ore pissocl 7 32(x-Roz 5 y= 3x-203 because people just (7,0 13 (0,-2) y=-25 for the X= wasters, Hime; 54 (5:0) 0 -3 5 (0, -3)



MAT 121 TI

$$O(5pt)$$
 $|5x-3| + 6 < 3$
 $|5x-3| < -3$
 $O(5pt)$ $|5x-3| < 6 < 3$
 $O(5pt)$ $|5x-3| < 6 < 3$
 $O(5pt)$ $|5x-3| < 6 < 3$
 $y = n + 37\%$ alcohol(gal)
 $y = n + 35\%$ $|1 + 11$
Then $x + y = 50$ and
 $.37x + .75y = .5(50)$
 $(17)(5pt)$ $x = ant Jennifer won (8)$
 $(.5)(-5x)(.03) + (-3)(-5x)(.08) = 950$
 $B(5pt)$ Let $x = ant of time two
 $worked to get the (hrs)$
Then $\frac{1}{5}x + \frac{1}{10}x = 1$
 $10x + 6x = 60$
 $16x = 60$
 $x = 95 = 30$$





121 51 $F(x) = 3x^2 + 4x + 9$ 779 3 (x2+ 3x $3(x^{2}+\frac{4}{3}x+\frac{3}{3})^{2}+9-3(\frac{4}{3})$ $y = 3(x + \frac{2}{3})^2 + \frac{23}{3}$ $(x+3) = (x+5)^2 = x^2 + 10x + 25$ $25x+75 = x^2 + 10x + 25 = 25x + 75$ x2-15x-50 X= 15X+ (5) 2= 225+200 210+5 10+3 (x-15)2=425 mon 5 425 X-12= - - 2 X= 15=5 V17 5 1 32517 + 3 5 (24+5) [17 = 5] cur. X chart

x is approximately -2.807764060 or 17.80776406 Very difficult to check under a time control.

