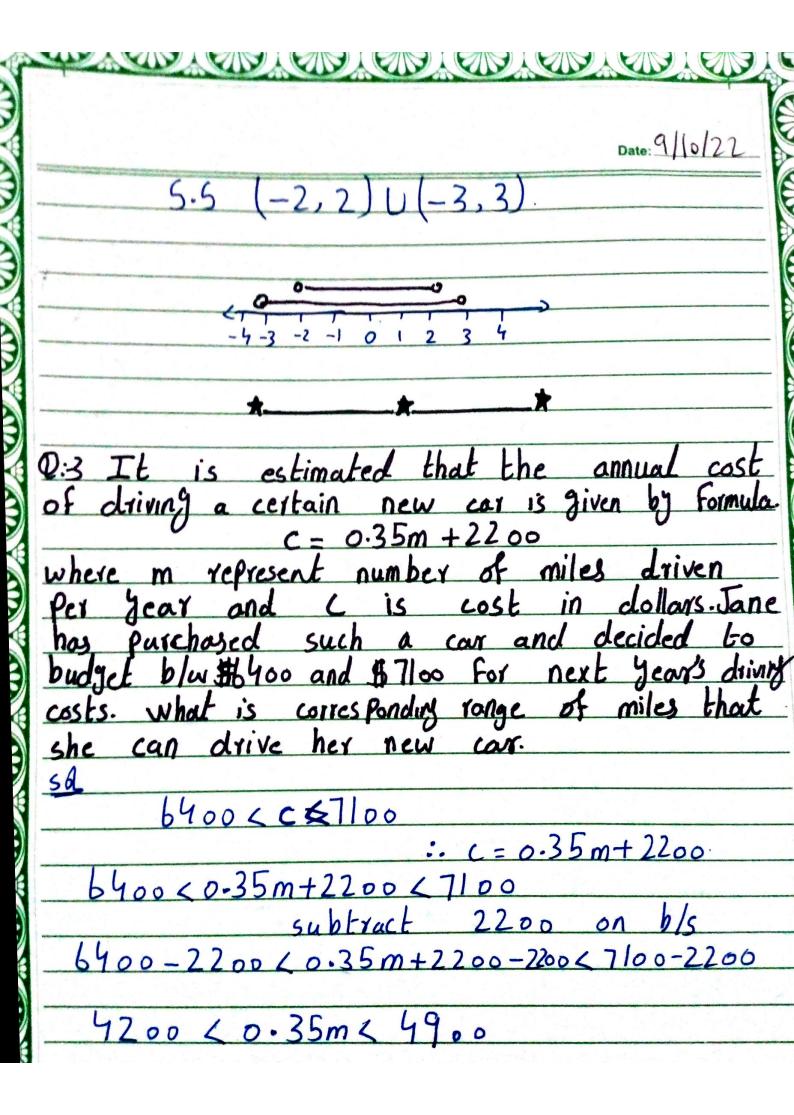
Date: 9/10/22 Assignment #1 Name:-Khizar Ali Roll No: 22P-9269 Program: Semester: Course: MT2003-Calculus & Analytical Geometry.

D: 1 Solve the inequalties and show the solution sets on deal line: (2-x) > 2(3+x)50 = 3(2-x) > 2(3+x)= 6-3x >6+2x b-3x-2x > b+2x-2xsubtracting 6 on b/s subtra dividing -5 on bls. 5.5: (-0,0)

b)
$$-x+5 \ge \frac{12+3x}{2}$$
 $\frac{50}{2} - \frac{x+5}{2} \le \frac{12+3x}{2}$
 $\frac{50}{2} - \frac{x+5}{2} \le \frac{12+3x}{2}$
 $\frac{1}{2} - \frac{1}{2} + \frac{1}{2} = \frac{1}{2$



Date: 9/10/22 Divide all parts by 0-35 4200 L 0.35 m L 4900 0.35 0.35 0.35 12000 < m < 14,000 -Roso -4000 O 4000 8000 12000 16000 Q:4al Solve the quadratic inequalties

4x2+x+1>0 b=1 c=1
using quadratic Formula. = -b+ 1b2-4ac $-1 \pm \sqrt{11^2 - 4(4)(1)}$ -1 + VI-16 =) -1 +

V-15 is equal to VISi it is a complex numbe so Soluten set = All real numbers. b) solve |3x+2| > 4 50 30C+2 > 4 we know | x > a C=> -a L x & a -46 3x+27 4 3x+2-2 = 4-2 $-2-4 \le 3x+2-2$ -6 4 326 -24x , X 72/3 $5.5 = (-20, -2) \cup (2/3, -2)$ Y A DY A DY A DY A DY A DY