

**Math 151 Sec F0501/F0502**  
**More Inequality Problems**

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Solve the inequalities below and give your answer using interval notation:

1.  $-1 \leq \frac{1-4t}{3} \leq 1$

[1, 2/1-] :sue

2.  $\frac{2}{3} \leq \frac{5-3t}{-2} \leq \frac{3}{4}$

[9/81, 6/61] :sue

3.  $\left| \frac{x-2}{3} \right| < 4$

(-10, 14) :sue

4.  $\left| \frac{x+1}{2} - \frac{x-1}{3} \right| < 1$

(1, 11-) :sue

5.  $\left| \frac{3(x-2)}{4} - \frac{4(x-1)}{3} \right| \geq 2$

(-\infty, -26/7] \cup [22/7, \infty) :sue

6.  $x^2 + x - 6 < 0$

(-3, 2) :sue

7.  $x^2 - 11x + 18 > 0$

(-\infty, 2) \cup (9, \infty) :sue

8.  $9x - x^2 \leq 20$

(-\infty, 4] \cup [5, \infty) :sue