

**Segundo Periodo**  
**AP10: Inecuaciones lineales**  
**1103**

Resuelva la desigualdad lineal. Expresé la solución usando notación de intervalos y grafique el conjunto solución.

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|---------------------------------------------------------|-----------------------------------------------------------|
| 1. $2x \leq 7$                                          | 2. $-4x \geq 10$                                          |
| 3. $2x - 5 > 3$                                         | 4. $3x + 11 < 5$                                          |
| 5. $7 - x \geq 5$                                       | 6. $5 - 3x \leq -16$                                      |
| 7. $2x + 1 < 0$                                         | 8. $0 < 5 - 2x$                                           |
| 9. $3x + 11 \leq 6x + 8$                                | 10. $6 - x \geq 2x + 9$                                   |
| 11. $\frac{1}{2}x - \frac{2}{3} > 2$                    | 12. $\frac{2}{5}x + 1 < \frac{1}{5} - 2x$                 |
| 13. $\frac{1}{3}x + 2 < \frac{1}{6}x - 1$               | 14. $\frac{2}{3} - \frac{1}{2}x \geq \frac{1}{6} + x$     |
| 15. $4 - 3x \leq -(1 + 8x)$                             | 16. $2(7x - 3) \leq 12x + 16$                             |
| 17. $2 \leq x + 5 < 4$                                  | 18. $5 \leq 3x - 4 \leq 14$                               |
| 19. $-1 < 2x - 5 < 7$                                   | 20. $1 < 3x + 4 \leq 16$                                  |
| 21. $-2 < 8 - 2x \leq -1$                               | 22. $-3 \leq 3x + 7 \leq \frac{1}{2}$                     |
| 23. $\frac{1}{6} < \frac{2x - 13}{12} \leq \frac{2}{3}$ | 24. $-\frac{1}{2} \leq \frac{4 - 3x}{5} \leq \frac{1}{4}$ |

SOLUCIONES (No incluye gráficas)



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|-------------------------------------|--------------------------------------|------------------------------------|-------------------------------|
| 1. $(-\infty, \frac{7}{2}]$         | 2. $(-\infty, -\frac{5}{2}]$         | 3. $(4, \infty)$                   | 4. $(-\infty, -2)$            |
| 5. $(-\infty, 2]$                   | 6. $[7, \infty)$                     | 7. $(-\infty, -\frac{1}{2})$       | 8. $(-\infty, \frac{5}{2})$   |
| 9. $[1, \infty)$                    | 10. $(-\infty, -1]$                  | 11. $(\frac{16}{3}, \infty)$       | 12. $(-\infty, -\frac{1}{3})$ |
| 13. $(-\infty, -18)$                | 14. $(-\infty, \frac{1}{3}]$         | 15. $(-\infty, -1]$                | 16. $(-\infty, -11]$          |
| 17. $[-3, 1)$                       | 18. $[3, 6]$                         | 19. $(2, 6)$                       | 20. $(-1, 4]$                 |
| 21. $[\frac{9}{2}, 5)$              | 22. $[-\frac{10}{3}, -\frac{13}{6}]$ | 23. $(\frac{15}{2}, \frac{21}{2}]$ |                               |
| 24. $[\frac{11}{12}, \frac{13}{6}]$ |                                      |                                    |                               |

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| 3. $2x - 5 > 3$                                         | 4. $3x + 11 < 5$                                          |
| 5. $7 - x \geq 5$                                       | 6. $5 - 3x \leq -16$                                      |
| 7. $2x + 1 < 0$                                         | 8. $0 < 5 - 2x$                                           |
| 9. $3x + 11 \leq 6x + 8$                                | 10. $6 - x \geq 2x + 9$                                   |
| 11. $\frac{1}{2}x - \frac{2}{3} > 2$                    | 12. $\frac{2}{5}x + 1 < \frac{1}{5} - 2x$                 |
| 13. $\frac{1}{3}x + 2 < \frac{1}{6}x - 1$               | 14. $\frac{2}{3} - \frac{1}{2}x \geq \frac{1}{6} + x$     |
| 15. $4 - 3x \leq -(1 + 8x)$                             | 16. $2(7x - 3) \leq 12x + 16$                             |
| 17. $2 \leq x + 5 < 4$                                  | 18. $5 \leq 3x - 4 \leq 14$                               |
| 19. $-1 < 2x - 5 < 7$                                   | 20. $1 < 3x + 4 \leq 16$                                  |
| 21. $-2 < 8 - 2x \leq -1$                               | 22. $-3 \leq 3x + 7 \leq \frac{1}{2}$                     |
| 23. $\frac{1}{6} < \frac{2x - 13}{12} \leq \frac{2}{3}$ | 24. $-\frac{1}{2} \leq \frac{4 - 3x}{5} \leq \frac{1}{4}$ |

SOLUCIONES (No incluye gráficas)



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|-------------------------------------|--------------------------------------|------------------------------------|-------------------------------|
| 1. $(-\infty, \frac{7}{2}]$         | 2. $(-\infty, -\frac{5}{2}]$         | 3. $(4, \infty)$                   | 4. $(-\infty, -2)$            |
| 5. $(-\infty, 2]$                   | 6. $[7, \infty)$                     | 7. $(-\infty, -\frac{1}{2})$       | 8. $(-\infty, \frac{5}{2})$   |
| 9. $[1, \infty)$                    | 10. $(-\infty, -1]$                  | 11. $(\frac{16}{3}, \infty)$       | 12. $(-\infty, -\frac{1}{3})$ |
| 13. $(-\infty, -18)$                | 14. $(-\infty, \frac{1}{3}]$         | 15. $(-\infty, -1]$                | 16. $(-\infty, -11]$          |
| 17. $[-3, 1)$                       | 18. $[3, 6]$                         | 19. $(2, 6)$                       | 20. $(-1, 4]$                 |
| 21. $[\frac{9}{2}, 5)$              | 22. $[-\frac{10}{3}, -\frac{13}{6}]$ | 23. $(\frac{15}{2}, \frac{21}{2}]$ |                               |
| 24. $[\frac{11}{12}, \frac{13}{6}]$ |                                      |                                    |                               |