

Topic 14: Solve polynomial and rational inequalities
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Solve and write the answer in interval notation.

1. $(x-1)(x+2)(x-3) > 0$

2. $2x^2 + 11x - 6 < 0$

3. $\frac{(x+2)}{(x-1)(x+3)} \leq 0$

4. $x^3 + 2x - 3x > 0$

Answers

1. $(-2, 1) \cup (3, \infty)$

2. $\left(-6, \frac{1}{2}\right)$

3. $(-\infty, -3) \cup [-2, 1)$

4. $(-3, 0) \cup (1, \infty)$