

Assignment: Quadratics Inequalities

Date _____

Solve each inequality.

1) $-2x^2 + x + 21 \geq 0$

2) $2x^2 + x - 1 \leq 0$

3) $4x^2 - 28x + 49 \leq 0$

4) $x^2 - 16x + 64 > 0$

5) $-x^2 + 3x + 4 < 0$

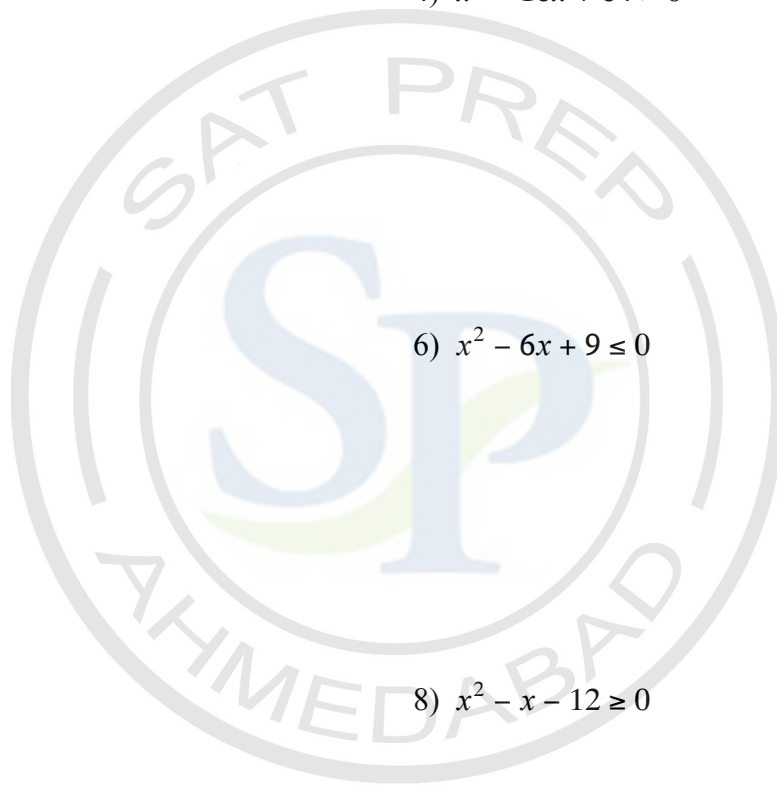
6) $x^2 - 6x + 9 \leq 0$

7) $x^2 + 11x + 30 \geq 0$

8) $x^2 - x - 12 \geq 0$

9) $x^2 + 14x + 48 \leq 0$

10) $x^2 + 8x + 16 \leq 0$



Answers to Assignment: Quadratics Inequalities

1) $\left[-3, \frac{7}{2}\right]$

2) $\left[-1, \frac{1}{2}\right]$

3) $\left\{\frac{7}{2}\right\}$

4) $(-\infty, 8) \cup (8, \infty)$

5) $(-\infty, -1) \cup (4, \infty)$

6) $\{3\}$

7) $(-\infty, -6] \cup [-5, \infty)$

8) $(-\infty, -3] \cup [4, \infty)$

9) $[-8, -6]$

10) $\{-4\}$

