

Solving Quadratic Inequalities

Sheet 2

Solve each quadratic inequality using a table.

1) $x^2 + 5x - 36 > 0$

Solution : _____

2) $-6x^2 + x + 2 \geq 0$

Solution : _____

3) $x^2 + 10x + 21 < 0$

Solution : _____

PREVIEW

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Solve each quadratic inequality using a table.

1) $x^2 + 5x - 36 > 0$

	$x < -9$	$-9 < x < 4$	$x > 4$
$(x + 9)$	-	+	+
$(x - 4)$	-	-	+
$(x + 9)(x - 4)$	+	-	+

Solution : _____

2) $-6x^2 + x + 2 \geq 0$

	$x \leq \frac{2}{3}$	$\frac{2}{3} < x < \frac{1}{2}$	$x \geq \frac{1}{2}$
$(2x - 1)$	-	+	+
$(3x - 2)$	+	-	-
$(2x - 1)(3x - 2)$	-	-	+

Solution : _____

3) $x^2 + 10x + 21 < 0$

	$x < -7$	$-7 < x < -3$	$x > -3$
$(x + 7)$	-	+	+
$(x + 3)$	-	-	+
$(x + 7)(x + 3)$	+	-	+

Solution : $-7 < x < -3$ **PREVIEW**

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