

Math CST – SN4 Bridge

Quadratic Inequalities

1. What are the solutions of the following inequalities?

a)	$5(x-3)(x+2) \le 0$
b)	-4(x-2)(x+6) > 0
c)	$x^2 + 2.5x + 4 > 7.5$
d)	$5(x+4)^2 < 845$
e)	
	$5(x-4)^2+6 \ge 186$
f)	$-2x^2 - 6x + 30 \ge -50$
g)	
	$0.5(x^2 + 8x + 7) < 8$

2. Find the solution set of the following inequalities.

a)	-12(x-50)(x+200)<0
b)	$0.2(x-7)(x+3) \le 0$
c)	$3(x+4)^2 + 10 \le 202$
d)	$100x^2 + 120x - 200 < 664$
e)	$2(x+15)(x-3) \ge 0$
f)	$-50x^2 + 60x > 20$
g)	$-x^2-5x>8$
h)	$2x^2 \ge 2x + 4$
i)	$0.5(x+4)^2 - 12.5 \le 0$