MATH 125 College Algebra	Blitzer 7 th Edition	Name:
Section 1.7 Linear Inequalities and Absolute Value Inequalities		Professor Anna Cox
Express (1,6] in set-builder notation and grap	h. Express $[-3,\infty)$ in s	set-builder notation and graph.

Use graphs to find each set:

(−3, 0) ∩ [−1, 2]	(-3, 0) \cup [-1, 2]
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Solve and graph:

$-9x \ge 36$	$\frac{x}{4}$	$-\frac{3}{2}$	$\leq \frac{x}{2} + 1$	

An elevator at a construction site has a maximum capacity of 3000 pounds. If the elevator operator weighs 245 pounds and each cement bag weighs 95 pounds, how many bags of cement can be safely lifted on the elevator in one trip?

Solve the inequality:

4(3x-2) - 3x < 3(1+3x) - 7

 $5(x-2) - 3(x+4) \ge 2x - 20$

 $-11 < 2x - 1 \le -5$

|2x - 6| < 8

 $\left|2(x-1)+4\right| \le 8$

1 < |2 - 3x|