

STATION #1

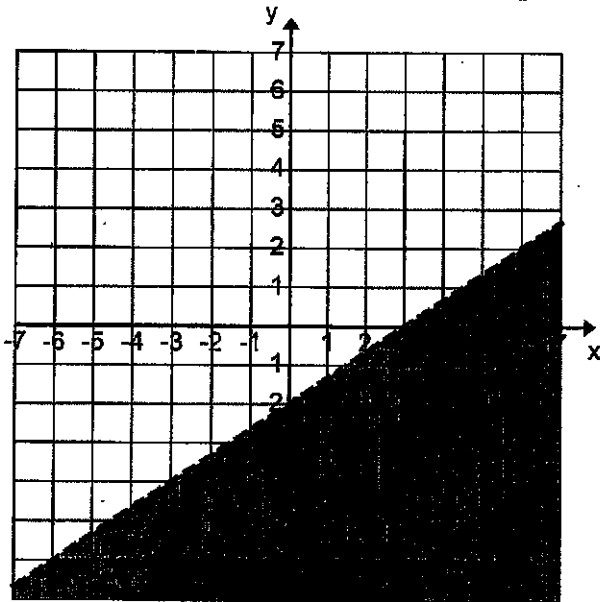
INEQUALITIES

① $3 > a \quad (-\infty, 3)$

② $\frac{15}{2} \leq x \leq 15 \quad \left[\frac{15}{2}, 15\right]$

③ $x \geq 3 \text{ OR } x \leq -1 \quad (-\infty, -1] \cup [3, \infty)$

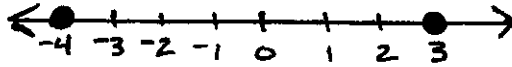
④



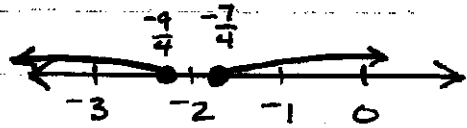
STATION #2

**ABSOLUTE VALUE EQUATIONS
AND INEQUALITIES**

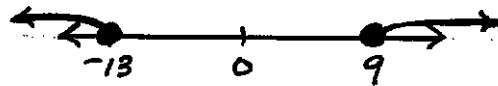
① $x = 3, -4$



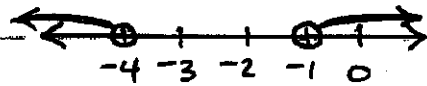
② $x \geq -\frac{7}{4}$ OR $x \leq -\frac{9}{4}$



③ $x \geq 9$ OR $x \leq -13$



④ $x > -1$ OR $x < -4$



STATION #3

SYSTEMS OF EQUATIONS

① $x = -4$ $y = 0$

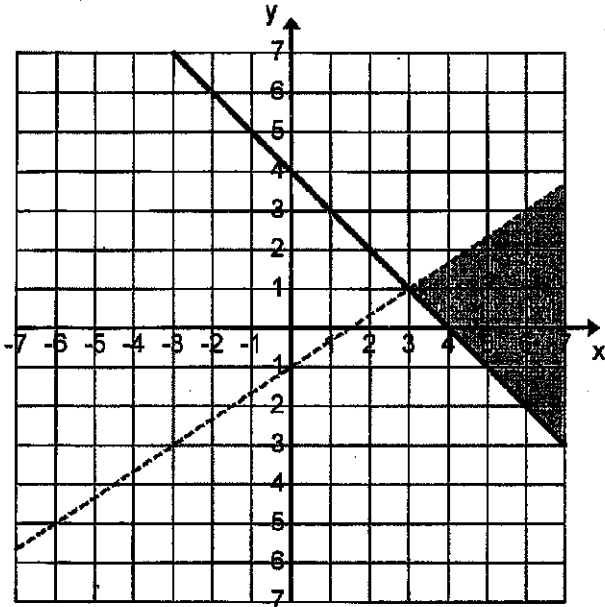
② 250 ADULT TICKETS WERE SOLD
100 CHILDREN TICKETS WERE SOLD

③ SENIOR CITIZEN TICKETS ARE \$4 EACH
CHILD TICKETS ARE \$10 EACH

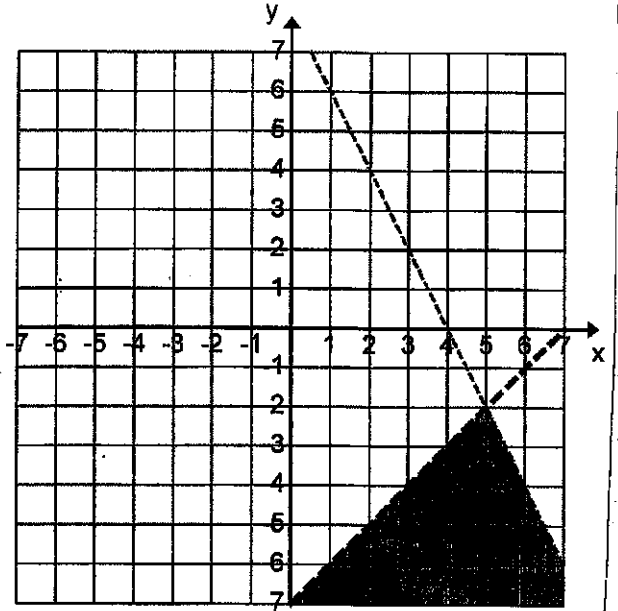
STATION # 4

SYSTEMS OF INEQUALITIES

①



②



③

$$y \geq \frac{-2}{3}x + 4$$

$$y > 2x - 2$$

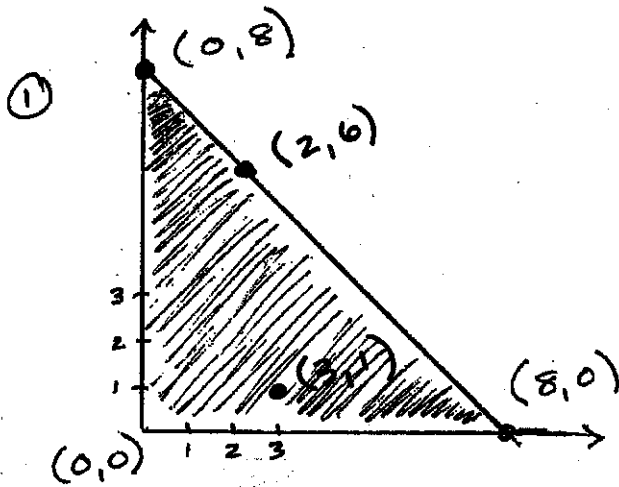
④

$$y \leq -3x + 5$$

$$y > \frac{1}{2}x + 3$$

STATION #5

LINEAR PROGRAMMING



POINTS THAT SATISFY THE CONSTRAINTS
(SOLUTIONS)

$(3,1)$, $(0,8)$, $(2,6)$