Algebra 1 ECA Remediation   Name_____

Quiz 29.3
Simplify.

1) $\sqrt{216}$

   A) $3\sqrt{2}$ B) $6\sqrt{6}$

   C) $2\sqrt{6}$ D) $3\sqrt{6}$

2) $\sqrt{288n^3}$

   A) $7\sqrt{2n}$ B) $12n\sqrt{2n}$

   C) $6n^2$ D) $4n\sqrt{7n}$

3) $\sqrt{100a^3}$

   A) $10a\sqrt{a}$ B) $6a^2\sqrt{2}$

   C) $6a\sqrt{3a}$ D) $10a\sqrt{2a}$

4) $\sqrt{112m^4n^3p^2}$

   A) $3mp\sqrt{3n}$ B) $16np\sqrt{2mp}$

   C) $4m^2np\sqrt{7n}$ D) $3np\sqrt{7mn}$

5) The school that Amanda goes to is selling tickets to a play. On the first day of ticket sales the school sold 13 adult tickets and 1 student ticket for a total of $62. The school took in $122 on the second day by selling 13 adult tickets and 7 student tickets. Find the price of an adult ticket and the price of a student ticket.

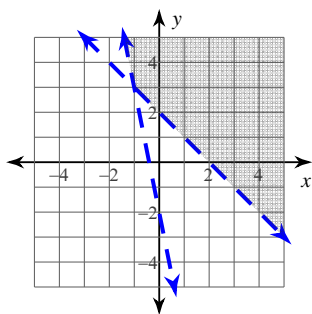   A) adult ticket: $6, student ticket: $11   B) adult ticket: $4, student ticket: $10

   C) adult ticket: $5, student ticket: $7   D) adult ticket: $10, student ticket: $4

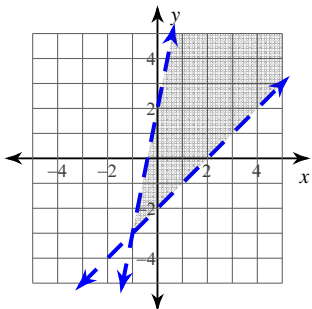**Sketch the solution to each system of inequalities.**
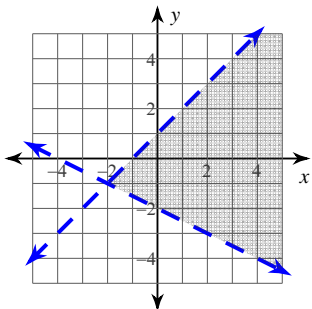
6) $y > -x + 2$
    $y > -5x - 2$

A)

B)

C)

D)