Algebra 1 ECA Remediation Name_____

Quiz 29.2

Simplify.

1) $\sqrt{448}$

A) 6 B) $8\sqrt{7}$
C) $5\sqrt{6}$ D) $6\sqrt{5}$

2) $\sqrt{72n^4}$

A) $6n^2\sqrt{2}$ B) $6n^2$
C) $7\sqrt{6n}$ D) $10n^2\sqrt{2}$

3) $\sqrt{216b^4}$

A) $4b^2\sqrt{6}$ B) $6b^2\sqrt{6}$
C) $8b\sqrt{3b}$ D) $6\sqrt{2b}$

4) $\sqrt{72h^4j^3k}$

A) $4jk\sqrt{2hk}$ B) $6jk\sqrt{2hj}$
C) $7j^2k^2h\sqrt{5}$ D) $6h^2j\sqrt{2jk}$

5) Emily's school is selling tickets to a spring musical. On the first day of ticket sales the school sold 11 adult tickets and 14 child tickets for a total of $247. The school took in $148 on the second day by selling 2 adult tickets and 14 child tickets. Find the price of an adult ticket and the price of a child ticket.

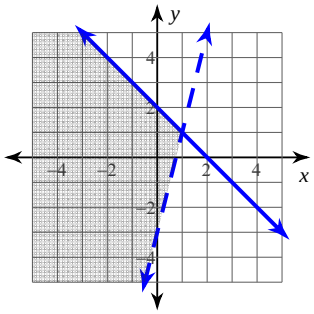
A) adult ticket: $15, child ticket: $14 B) adult ticket: $11, child ticket: $9
C) adult ticket: $18, child ticket: $11 D) adult ticket: $12, child ticket: $14

Sketch the solution to each system of inequalities.

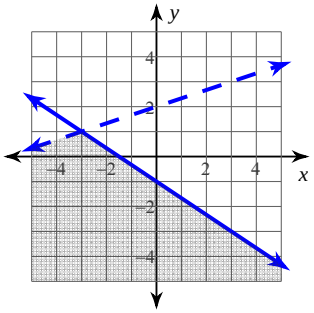
6) $y < \frac{1}{3}x + 2$

$y \leq -\frac{2}{3}x - 1$

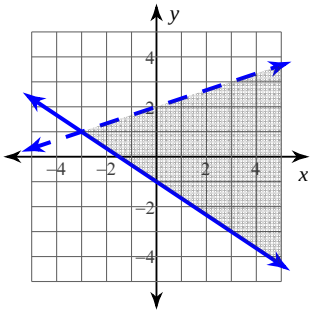
A)



B)



C)



D)