Algebra 1 ECA Remediation Name_____

Quiz 29.1

Simplify.

1) $\sqrt{16}$

A) 4 B) $2\sqrt{6}$

C) $8\sqrt{7}$ D) $4\sqrt{6}$

2) $\sqrt{32n^2}$

A) $8n\sqrt{5n}$ B) $4n\sqrt{5n}$

C) $4n\sqrt{2}$ D) $3n\sqrt{5}$

3) $\sqrt{45k^2}$

A) $7k\sqrt{6}$ B) $3k\sqrt{5}$

C) $3k\sqrt{7}$ D) $10\sqrt{k}$

4) $\sqrt{384x^3y^2z^4}$

A) $14x^2yz\sqrt{2y}$

B) $8z^2xy\sqrt{6x}$

C) $16x^2y^2z\sqrt{2}$

D) $8y^2xz\sqrt{2xz}$

5) James' school is selling tickets to a fall musical. On the first day of ticket sales the school sold 6 senior citizen tickets and 9 student tickets for a total of $153. The school took in $198 on the second day by selling 9 senior citizen tickets and 9 student tickets. What is the price each of one senior citizen ticket and one student ticket?

A) senior citizen ticket: $13, student ticket: $8 B) senior citizen ticket: $16, student ticket: $3

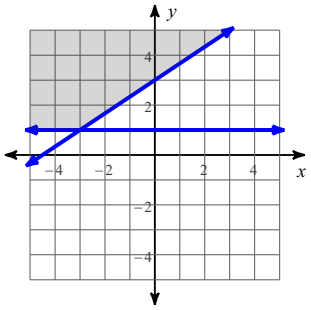
C) senior citizen ticket: $15, student ticket: $7 D) senior citizen ticket: $7, student ticket: $15

Sketch the solution to each system of inequalities.

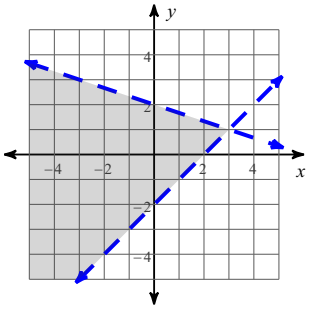
6) $y > 3$

$y \geq 3x - 3$

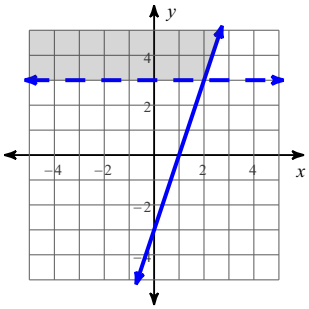
A)



B)



C)



D)