Name:_____ Class/Period:_____

Assignment: E13 practice 2 Teacher: Lee

1 Boyle's Law involves the pressure and volume of gas in a container. It can be represented by the formula $P_1V_1 = P_2V_2$. When the formula is solved for P_2, the result is

1 $P_1V_1V_2$

2 $\frac{V_2}{P_1V_1}$

3 $\frac{P_1V_1}{V_2}$

4 $\frac{P_1V_2}{V_1}$

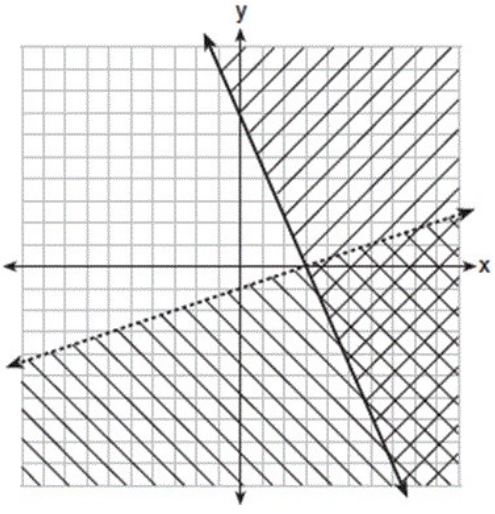
2 When $3x + 2 \leq 5(x - 4)$ is solved for x, the solution is

1 $x \leq 3$
2 $x \geq 3$
3 $x \leq -11$
4 $x \geq 11$

3 The cost of a pack of chewing gum in a vending machine is \$0.75. The cost of a bottle of juice in the same machine is \$1.25. Julia has \$22.00 to spend on chewing gum and bottles of juice for her team and she must buy seven packs of chewing gum. If b represents the number of bottles of juice, which inequality represents the maximum number of bottles she can buy?

1 $0.75b + 1.25(7) \geq 22$
2 $0.75b + 1.25(7) \leq 22$
3 $0.75(7) + 1.25b \geq 22$
4 $0.75(7) + 1.25b \leq 22$

4 What is one point that lies in the solution set of the system of inequalities graphed below?



1 (7,0) 2 (3,0) 3 (0,7) 4 (-3,5)

5 Given: $A = \{18, 6, -3, -12\}$

Determine all elements of set A that are in the solution of the inequality $\frac{2}{3}x + 3 < -2x - 7$.

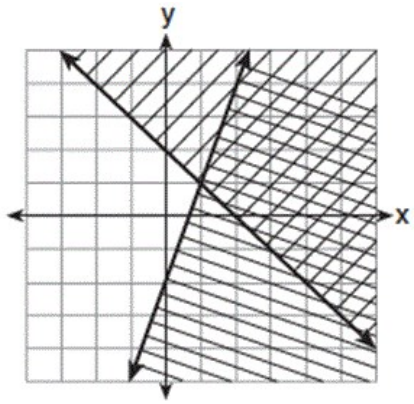
1 $\{-3, 6, 18\}$
2 $\{6, 18\}$
3 $\{-3, -12\}$
4 $\{-12\}$

6 Which ordered pair is in the solution set of the system of inequalities $y \leq 3x + 1$ and $x - y > 1$?

1 (–1,–2)
2 (2,–1)
3 (1,2)
4 (–1,2)

7 Given: $y + x > 2$
$y \leq 3x - 2$

Which graph shows the solution of the given set of inequalities?

1


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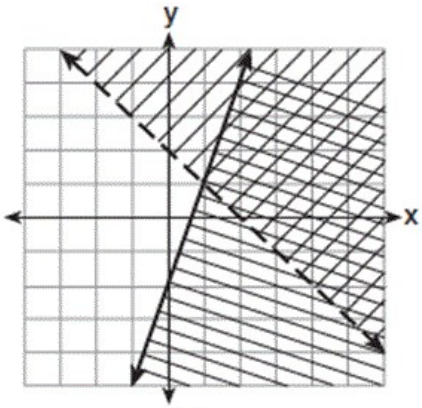

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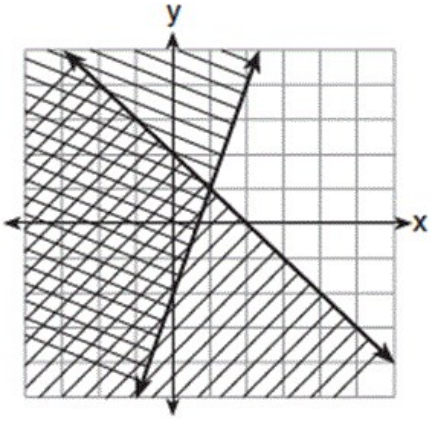

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