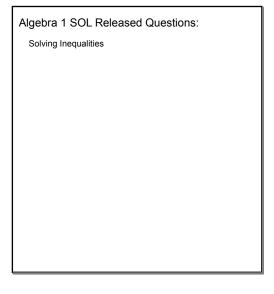
## A1 SOL Packet #2c



Directions: Type an inequality in the box. Use the < or > for the inequality sign. Solve for x: -2x+6 < x-6

Which inequality represents all the solutions of 9(4x-8) < 4(6x+9)?

A x < -3B x > -3C x < 9D x > 9

Directions: Type an inequality in the box. Use the < and > for the inequality sign.

Solve for x: 6x-11-13x<7-5x

An inequality is shown.  $-2(x+50) \geq 16$  Which inequality is true because of the division property of inequality?  $A \frac{-2(x+50)}{-2} \geq \frac{16}{-2}$   $B \frac{-2(x+50)}{-2} \leq \frac{16}{-2}$   $C \frac{-2(x+50)}{-2} \geq 16$   $D \frac{-2(x+50)}{-2} \leq 16$ 

What is the solution to the following inequality?  $3(x-3) \le 3$  A  $x \le 2$  B  $x \ge 2$  C  $x \le 4$  D  $x \ge 4$ 

## A1 SOL Packet #2c

Which inequality is equivalent to  $4x - 2y \le 8$ ?

- $\mathbf{A} \quad y \leq 2x 4$
- $\mathbf{B} \qquad y \ge 2x 4$
- **C**  $y \le -2x 4$
- **D**  $y \ge -2x 4$

What is the solution to the following inequality?

$$6(x+1) \ge 7$$

 $x \ge \frac{13}{6}$ 

**G**  $x \ge \frac{1}{6}$ 

 $x \ge 6$ 

A repairman estimated the cost of replacing a part in Mrs. James' computer would be at most \$225. The estimate included \$35 for the part, a \$40 service charge, and \$30 per hour for labor. What is the maximum number of hours the repairman estimated for the job?

- **A**  $4\frac{1}{2}$
- в 5
- c  $5\frac{1}{2}$
- **D** 6

What is the solution to the inequality below?

$$2x - 7 \ge 15$$

- A  $x \leq 8$
- **B**  $x \ge 8$
- **C**  $x \le 11$
- **D**  $x \ge 11$

What values of x make the following inequality true?

$$^{-}3(x+1) \leq 15$$

- *x* ≥ 6
- *x* ≤ 6
- **C**  $x \ge -6$
- **D** x ≤ -6

If  $\frac{1}{4}x + 1 > \frac{15}{2}$ , then —

- A x > 26
- **B** x > 29
- $\mathbf{C} \quad x \ > \ \frac{13}{2}$
- **D** x > 28

## A1 SOL Packet #2c

## What is the solution to $8 - 2x \ge -4$ ?

A 
$$x \ge 6$$

$$\mathbf{B} \quad x \geq 2$$

$$c x \le 2$$

$$\mathbf{D} \quad x \leq 6$$

What is the solution to the inequality shown below?

$$-2x + 3 > 7$$

A 
$$x < -5$$

B 
$$x < -2$$

$$\mathbf{c} \quad x > 2$$

$$\mathbf{p} \quad x < 3$$

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What is the solution to the inequality

$$7x-5\geq x+1?$$

$$\mathbf{F} \quad x \leq 1$$

$$G x \ge 1$$

$$H x \ge -1$$

$$\mathbf{J} \quad \mathbf{x} \leq \frac{5}{2}$$

What is the solution to  $2x + 3 \ge x - 5$ ?

$$F \ x \ge \frac{-8}{3}$$

$$G x \ge -8$$

$$\mathbf{H} \quad x \ge \frac{-2}{3}$$

J 
$$x \ge -2$$

2002

What is the solution to  $3(x-5) \ge 12$ ?

F 
$$x \le 1$$

$$G x \ge -1$$

$$\mathbf{H} \quad x \ge \frac{17}{3}$$

J 
$$x \ge 9$$

What is the solution to 2x - 4 < 6?

$$\mathbf{F} \quad x < 1$$

H 
$$x < 10$$

J 
$$x > 1$$

2000