

Name: _____

No work No credit

Date: _____

CW # 3-1: Algebra 1 - Standard 21 - 23: Sections 6-1 to 6-5

(50 points)

1. *Solve and graph the given inequality:*

$$3(2x - 4) > 4x - 5$$

2. *Write a mathematical inequality, solve and graph:*

"3 less than twice a number is no more than seventeen"

3. *solve and graph the following compound inequality:*

$$-2 \leq 3x - 9 \leq 24$$

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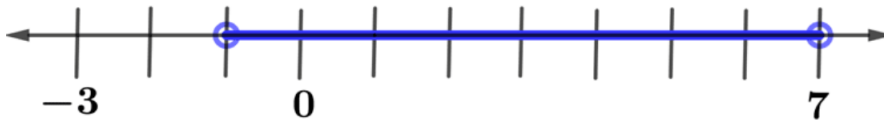
CW # 3-1: Algebra 1 - Standard 21 - 23: Sections 6-1 to 6-5

(50 points)

4. Solve and graph the following compound inequality:

$$-2x - 4 > 8 \text{ and } \frac{3}{4}x + 1 \geq 7$$

5. Write a compound inequality to represent the given graph:



6. Solve and graph the following compound inequality:

$$5x + 7 < -13 \text{ or } -\frac{1}{2}x \leq -4$$

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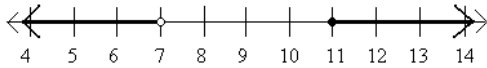
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(50 points)

7. Write a compound inequality to represent the given graph:



8. Write and solve an inequality:

*Five times a number added to two is less than or equal to
two times the same number minus 4*

9. Write and solve an inequality:

half a number minus four is greater than negative three

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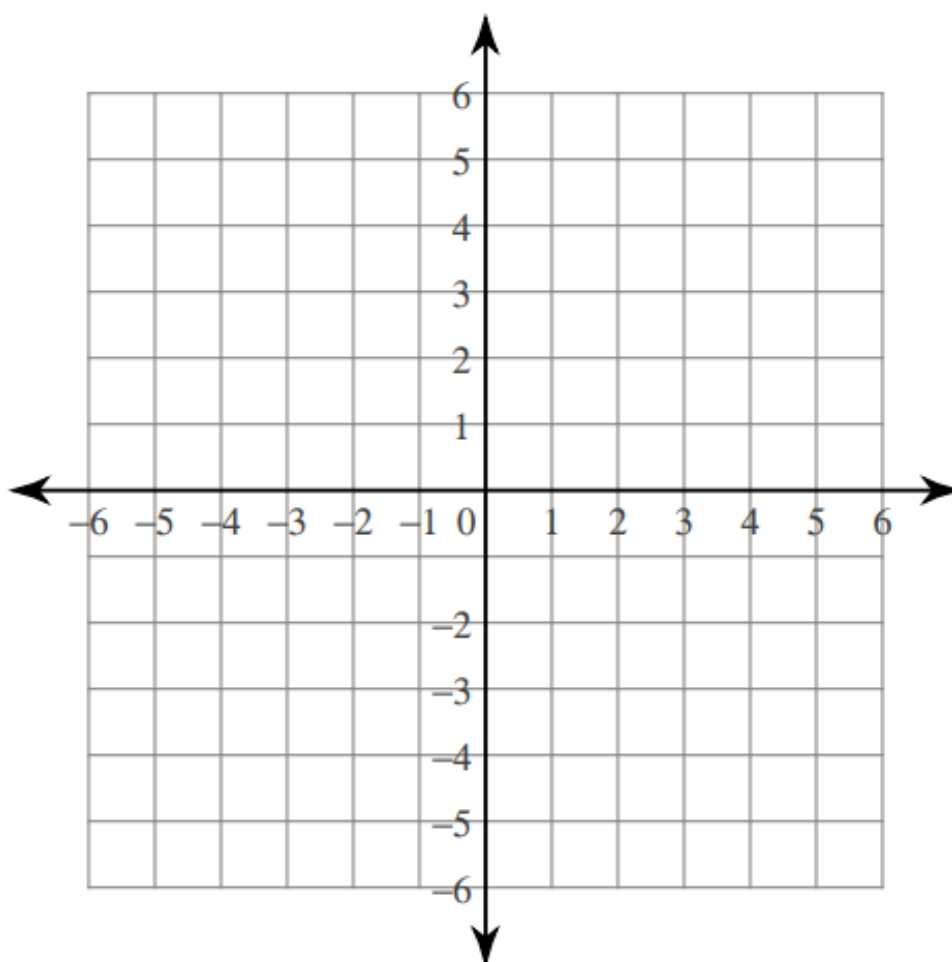
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(50 points)

10. Sketch the graph of the given inequality:

$$2x + 5y > -15$$



State any ordered pair that is a solution to the inequality