

[Home](#)
[Realtor](#)
[Algebra ALEKS Topics](#)
[Algebra Notes](#)
[Algebra Reviews](#)
[MAT0028](#)
[MAC1105](#)
[MGF ALEKS Topics](#)
[MGF Reviews](#)
[MGF Notes](#)
[STA2023](#)
[Stats ALEKS Topics](#)
[Stats Notes](#)
[Stats Reviews](#)

Algebra / Identifying solutions to a linear inequality in two variables

Identifying solutions to a linear inequality in two variables

For each ordered pair (x, y) , determine whether it is a solution to the inequality $4x + 8y \geq -8$.

(x, y)	Is it a solution?	
	Yes	No
$(-2, -3)$	☐	☒
$(6, -4)$	☒	☐
$(-7, 5)$	☐	☐
$(-6, 0)$	☐	☐

$(-2, -3)$

$$4x + 8y \geq -8$$

$$4(-2) + 8(-3) \stackrel{?}{\geq} -8$$

$$-8 + -24 \stackrel{?}{\geq} -8$$

$$-32 \not\geq -8$$

$(6, -4)$

$$4x + 8y \geq -8$$

$$4(6) + 8(-4) \stackrel{?}{\geq} -8$$

$$24 + -32 \stackrel{?}{\geq} -8$$

$$-8 \geq -8$$

Note: The Solve feature is not available to students.

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#Lines

#LinearEquationsAndInequalities

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