

Graph these two equations together:

y = -2|x+3|+5 y = 1

Use the graph to solve this equation:

-2|x+3|+5 = 1 $\chi = -5, -)$

Two graphs are equal where they Intersect



4|2x + 9| - 1 = 27

-9 = 7-2 -9-2 -9-2 -9-2 -9-2 -9-2 -9-2 -9

 $\frac{+1}{4} + \frac{+1}{2x} + \frac{+1}{2x} = \frac{-28}{-4}$

[2×+9] -7

Solve this equation:





Definition

An **extraneous solution** is a solution of an equation derived from an original equation that is not a solution of the original equation.

Extraneous Solution





Use this graph of y = |x - 2| + 1 to solve this inequality:

|x - 2| +1 > 2 X ∠ | → X > 3



Use this graph of y = |x - 2| + 1 to solve this inequality:









 $2|5x + 7| - 3 \ge 23$ Solve. 1 726 5×+7 2 -13 0 2 Farther than 13 units from zer 6 x+7 5×<-20 (×<-4) 5. -i-i Gx>6

Solve. $|x+3| \ge 3x+7$ Farther than 3x+7 units from -(3X+7) Ö 3x+7 zero To the left of the hag value $X + 3 \leq -(3x + 7)$ the right of ×+3 ≤ 4x+3 <----45 2X XE-2.5

Hwk #5 Sec 1-5

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Problems 10, 14, 20, 23, 41, 47, 51

You DON'T need to graph the solutions

Due Tomorrow