

Solving already factored equations 2.6.17

Welcome

$$(x + 4)(x + 3) = 0$$

Do you think we can solve this for x? How many answers do you think there will be?

What do we know about things being multiplied by 0?

What would make the left parenthesis equal to zero?

What would make the right parenthesis equal to zero?

So what would the expression be if $x = -4$ or $x = -3$? Is it true?

This is the multiplicative property of zero.

Since one of the parenthesis can be zero, then the product must be zero.

So x can be either number that will make the product zero.

$$(3x+9)(2x-7)=0$$

What are the possible values of zero? Set the parenthesis equal to zero and solve.

You try

$$(x-3)(x+2)=0$$

$$(3x-39)(-x+12)=0$$

Hand out reviews and let them get started.

HW Study