

Algebra lesson 9 Quiz Answers

Saturday, December 14, 2013
12:38 AM

1. Expand $(x + 1)(x - 3)$
 $= x^2 - 3x + x - 3$
 $= x^2 - 2x - 3$

2. Expand $(2x - 3)(3x + 1)$
 $= 6x^2 + 2x - 9x - 3$
 $= 6x^2 - 7x - 3$

3. Factorise $x^2 + 5x + 6$

Box method:

	x	2
x	x^2	$2x$
3	$3x$	6

Check (add diagonals): $2x + 3x = 5x$

Answer: $(x + 2)(x + 3)$

4. Factorise $2x^2 + x - 1$

Box method:

	x	1
2x	$2x^2$	$2x$
-1	$-x$	-1

Check (add diagonals): $2x - x = x$

Answer: $(x + 1)(2x - 1)$