

Lesson 9-6: Factoring Trinomials of the  
Type  $ax^2+bx+c$

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Factor completely:  $3x^2 + 15x - 42$

Part 1: Factoring  $ax^2+bx+c$

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Factored completely, the expression

$2y^2 + 12y - 54$  is equivalent to

[A]  $2(y - 3)(y - 9)$       [B]  $(y + 6)(2y - 9)$

[C]  $2(y + 9)(y - 3)$       [D]  $(2y + 6)(y - 9)$

[1] C

[2]  $3(x + 7)(x - 2)$ , and appropriate work is shown.

[1] Appropriate work is shown, but one computational error is made.

or [1] A conceptual error is made, such as incomplete factoring.

or [1]  $3(x + 7)(x - 2)$ , but no work is shown.

[0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct

response that was obtained by an obviously

[2] incorrect procedure.