

Intro to Factoring Trinomials

$x^2 + 7x + 10$ product is 10 sum is 7 <u>Answer:</u> $2 \times 5 = 10$ $2 + 5 = 7$ $x^2 + 7x + 10$ $(x+5)(x+2)$	$x^2 + 6x - 16$ product is 16 difference is 6 <u>Answer:</u> $2 \times 8 = 16$ $8 - 2 = 6$ $x^2 + 6x - 16$ $(x+8)(x-2)$	$x^2 - 3x - 18$ product is 18 difference is 3 <u>Answer:</u> $3 \times 6 = 18$ $6 - 3 = 3$ $x^2 - 3x - 18$ $(x-6)(x+3)$
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1. Factor the following trinomials

(A) $x^2 + 8x + 15$

(B) $x^2 - 2x - 15$

(C) $x^2 - 8x + 15$

(D) $x^2 + 11x + 30$

(E) $x^2 + x - 30$

(F) $x^2 - 7x - 30$

(G) $x^2 - 11x + 28$

(H) $x^2 + 3x - 28$

(I) $x^2 - 12x - 28$

(J) $x^2 + 12x + 20$

(K) $x^2 - 9x + 20$

(L) $x^2 + 8x - 20$