

COMMON WITH SIMPLE TRINOMIAL FACTORING WORK

Factor the common factor out of each expression, then simple trinomial factor the remaining polynomial.

- | | |
|-------------------------|------------------------|
| a. $-5x^2 + 85x - 350$ | b. $-x^2 + 17x - 72$ |
| c. $-3x^2 - 39x - 36$ | d. $-5x^2 + 40x - 60$ |
| e. $2x^2 + 26x + 60$ | f. $3x^2 - 18x - 120$ |
| g. $-2x^2 - 8x + 90$ | h. $-5x^2 - 30x + 135$ |
| i. $10x^2 + 10x - 200$ | j. $2x^2 + 8x + 6$ |
| k. $3n^2 + 9n - 30$ | l. $2x^2 + 12x - 80$ |
| m. $5t^2 + 15t + 10$ | n. $4x^2 + 16x + 16$ |
| o. $18x + 12x^2 + 2x^3$ | p. $5x^2 - 60x - 140$ |

Solutions:

$(x + 1)(x - 1)(x + 2)(x - 3)(x + 4)(x - 5)(x + 6)(x - 7)(x + 8)(x - 9)(x + 10)(x - 11)(x + 12)(x - 13)(x + 14)(x - 15)(x + 16)(x - 17)(x + 18)(x - 19)(x + 20)(x - 21)(x + 22)(x - 23)(x + 24)(x - 25)(x + 26)(x - 27)(x + 28)(x - 29)(x + 30)(x - 31)(x + 32)(x - 33)(x + 34)(x - 35)(x + 36)(x - 37)(x + 38)(x - 39)(x + 40)(x - 41)(x + 42)(x - 43)(x + 44)(x - 45)(x + 46)(x - 47)(x + 48)(x - 49)(x + 50)(x - 51)(x + 52)(x - 53)(x + 54)(x - 55)(x + 56)(x - 57)(x + 58)(x - 59)(x + 60)(x - 61)(x + 62)(x - 63)(x + 64)(x - 65)(x + 66)(x - 67)(x + 68)(x - 69)(x + 70)(x - 71)(x + 72)(x - 73)(x + 74)(x - 75)(x + 76)(x - 77)(x + 78)(x - 79)(x + 80)(x - 81)(x + 82)(x - 83)(x + 84)(x - 85)(x + 86)(x - 87)(x + 88)(x - 89)(x + 90)(x - 91)(x + 92)(x - 93)(x + 94)(x - 95)(x + 96)(x - 97)(x + 98)(x - 99)(x + 100)$

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