

Factoring Trinomials



Factorise the following quadratic expressions.

Section A

1) $x^2 + 7x - 30$

4) $x^2 - 18x + 80$

7) $x^2 - 9x - 22$

10) $x^2 - 17x + 72$

2) $x^2 + 9x + 20$

5) $x^2 - 11x + 28$

8) $x^2 - x - 12$

11) $x^2 - x - 42$

3) $x^2 + 8x - 9$

6) $x^2 + 6x - 72$

9) $x^2 + 3x - 108$

12) $x^2 - 15x + 56$

Section B

1) $2x^2 + 3x + 1$

5) $2x^2 + 9x + 7$

9) $2x^2 + 16x + 14$

13) $2x^2 + 22x + 36$

2) $2x^2 + 5x + 2$

6) $2x^2 + 5x + 3$

10) $2x^2 + 16x + 24$

14) $2x^2 + 28x + 48$

3) $2x^2 + 7x + 3$

7) $2x^2 + 8x + 6$

11) $2x^2 + 12x + 18$

15) $2x^2 + 26x + 72$

4) $2x^2 + 7x + 5$

8) $2x^2 + 9x + 10$

12) $2x^2 + 14x + 20$

Section C

1) $2x^2 + x - 1$

5) $2x^2 - 13x - 24$

9) $3x^2 - 21x + 36$

13) $2x^2 - 11x + 15$

2) $2x^2 + x - 3$

6) $3x^2 - 14x - 5$

10) $5x^2 - 41x + 8$

14) $3x^2 - 34x - 24$

3) $2x^2 + 9x - 5$

7) $3x^2 - 8x - 11$

11) $3x^2 - 2x - 21$

15) $5x^2 - 27x + 10$

4) $2x^2 - 3x - 2$

8) $2x^2 - 14x + 12$

12) $2x^2 + 2x - 12$

Section D

1) $4x^2 + 12x + 8$

8) $6x^2 - 5x - 4$

15) $48x^2 + 72x + 24$

2) $6x^2 + 23x + 20$

9) $6x^2 - 16x + 15$

16) $18x^2 + 51x + 8$

3) $6x^2 + 24x + 18$

10) $8x^2 + 16x - 24$

17) $20x^2 + 27x + 9$

4) $4x^2 + 31x + 21$

11) $7x^2 + 52x - 32$

18) $30x^2 - 32x + 8$

5) $4x^2 + 22x + 18$

12) $6x^2 - 55x + 56$

19) $36x^2 + 42x - 8$

6) $8x^2 + 22x + 15$

13) $9x^2 + 36x + 35$

20) $24x^2 - 50x - 14$

7) $8x^2 + 36x + 16$

14) $12x^2 - 42x + 30$

Challenge!

21) $-2x^2 + x + 21$

Factoring Trinomials L9 Algebra 1 Answer Key

L. Castelluzzo



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