

Factoring 2-Variable Trinomial Squares with Leading Coefficient Not 1

Factor each completely.

1) $7x^2 + 10xy + 3y^2$

2) $3x^2 - 10xy - 48y^2$

3) $2x^2 - 11xy + 9y^2$

4) $5x^2 - 27xy + 28y^2$

5) $3x^2 - 10xy + 3y^2$

6) $5x^2 + 27xy + 10y^2$

7) $3x^2 - 8xy - 72y^2$

8) $3x^2 - 10xy - 8y^2$

9) $7x^2 + 40xy + 25y^2$

10) $2x^2 - 11xy - 90y^2$

11) $9m^2 + 17mn + 8n^2$

12) $6x^2 + 7xy - 24y^2$

13) $9u^2 - 9uv - 70v^2$

14) $9x^2 + 36xy + 32y^2$

15) $4x^2 - 12xy - 7y^2$

16) $6x^2 - 23xy - 4y^2$

17) $4x^2 - 28xy + 49y^2$

18) $8m^2 - 6mn - 27n^2$

19) $6u^2 - 31uv + 18v^2$

20) $8a^2 - 33ab + 4b^2$

Answers to Factoring 2-Variable Trinomial Squares with Leading Coefficient Not 1

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|--------------------------|---------------------------|--------------------------|------------------------|
| 1) $(7x + 3y)(x + y)$ | 2) $(3x + 8y)(x - 6y)$ | 3) $(2x - 9y)(x - y)$ | 4) $(5x - 7y)(x - 4y)$ |
| 5) $(3x - y)(x - 3y)$ | 6) $(5x + 2y)(x + 5y)$ | 7) Not factorable | 8) $(3x + 2y)(x - 4y)$ |
| 9) $(7x + 5y)(x + 5y)$ | 10) $(2x + 9y)(x - 10y)$ | 11) $(m + n)(9m + 8n)$ | |
| 12) $(2x - 3y)(3x + 8y)$ | 13) $(3u + 7v)(3u - 10v)$ | 14) $(3x + 4y)(3x + 8y)$ | |
| 15) $(2x + y)(2x - 7y)$ | 16) $(x - 4y)(6x + y)$ | 17) $(2x - 7y)^2$ | |
| 18) $(4m - 9n)(2m + 3n)$ | 19) $(3u - 2v)(2u - 9v)$ | 20) $(a - 4b)(8a - b)$ | |