

Math C

9.2 Perfect Square Trinomials

Find the missing term that makes the trinomial a perfect square.

1.  $c^2 + 8c + (?)$

2.  $r^2 - 18r + (?)$

3.  $m^2 - 2m + (?)$

4.  $u^2 + 24u + (?)$

5.  $9x^2 - 42x + (?)$

6.  $4p^2 + 12p + (?)$

7.  $4y^2 - 44y + (?)$

8.  $9k^2 + 78k + (?)$

9.  $a^2 + a + (?)$

10.  $y^2 - 3y + (?)$

11.  $(?) + 7z + z^2$

12.  $(?) - 15t + t^2$

13.  $(?) + 12ax + 4x^2$

14.  $(?) - 2by + y^2$

15.  $(?) - 4pr + r^2$

16.  $(?) + 28a^2b + 4b^2$

**Answer List**

- |                    |                     |
|--------------------|---------------------|
| 1. 16              | 2. 81               |
| 3. 1               | 4. 144              |
| 5. 49              | 6. 9                |
| 7. 121             | 8. 169              |
| 9. $\frac{1}{4}$   | 10. $\frac{9}{4}$   |
| 11. $\frac{49}{4}$ | 12. $\frac{225}{4}$ |
| 13. $9a^2$         | 14. $b^2$           |
| 15. $4p^2$         | 16. $49a^4$         |

**Catalog List**

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|---------------|---------------|---------------|---------------|
| 1. ALG NA 29  | 2. ALG NA 30  | 3. ALG NA 31  | 4. ALG NA 32  |
| 5. ALG NA 37  | 6. ALG NA 38  | 7. ALG NA 39  | 8. ALG NA 40  |
| 9. ALG NA 61  | 10. ALG NA 62 | 11. ALG NA 63 | 12. ALG NA 64 |
| 13. ALG NA 41 | 14. ALG NA 42 | 15. ALG NA 43 | 16. ALG NA 44 |