

Factoring: Two Terms
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Factor completely.

Answers

1. $y^2 - 4$

1. $(y-2)(y+2)$

2. $16z^2 - 49$

2. $(4z-7)(4z+7)$

3. $4p^2q^2 - 1$

3. $(2pq-1)(2pq+1)$

4. $4t^2 + 9s^2$

4. Nonfactorable
(sum of squares)

5. $25m^2 - 100$

5. $25(m-2)(m+2)$

6. $c^3 + 1$

6. $(c+1)(c^2 - c + 1)$

7. $w^3 - 8$

7. $(w-2)(w^2 + 2w + 4)$

8. $a^3 + b^3$

8. $(a+b)(a^2 - ab + b^2)$

9. $v^3 - 125$

9. $(v-5)(v^2 + 5v + 25)$

10. $2q^3 + 54$

10. $2(q+3)(q^2 - 3q + 9)$

11. $8 - g^3$

11. $(2-g)(4 + 2g + g^2)$

12. $4a^3 - 108b^3$

12. $4(a-3)(a^2 + 3a + 9)$

13. $64s^3t + t$

13. $t(4s+1)(16s^2 - 4s + 1)$

14. $3y^3 + 81z^3$

14. $3(y+3z)(y^2 - 3yz + 9z^2)$

15. $2a^2x^3 + 16a^2y^3$

15. $2a^2(x+2y)(x^2 - 2xy + 4y^2)$

Please visit the Learning Lab for further assistance.