

Classify each problem as DOTS, DOTC, SOTC, PST, or NONE. Some problems may fall under more than one category.

1. $8x^3 - 27y^3$

2. $4a^2 + 9b^2$

3. $x^6 - y^6$

4. $p^4 - 16q^4$

5. $4y^2 - 12y + 9$

6. $49x^4 - 25y^8$

7. $x^2 + 4xy + 4y^2$

8. $4a^2 - 6ab + 9b^2$

9. $m^2 - 16mn + 64n^2$

10. $27z^3 + 125w^3$

11. $p^2 - 6pq - 9q^2$

12. $27s^6t^6 + 64$

13. $x^{12} - 64y^{12}$

14. $9x^2 - 25y^4$

15. $r^2 + rs + 4s^2$

16. $m^2 - 20mn + 100n^2$

17. $a^4 - 8a^2c^2 + 16c^4$

18. $8k^6 + 27w^3$

19. $x^2 + 81y^2$

20. $b^{15} + 64c^6$

