

Factoring WS PS D

Name _____

Factor completely. If the polynomial is not factorable, write *prime*.

1. $x^2 + 25$

2. $10x^2 + x - 21$

3. $7a^3 - 8a^2 + 7a + 8$

4. $15p^2 + 14p - 8$

5. $a^2 + 12a - 28$

6. $9y^4 - 16$

7. $12z^3 + 6z^2 - 18z$

8. $-24y^5 + 12y^4 - 18y + 9$

9. $-g^2 + 6g + 27$

10. $8y^3 - 16y^2 + 5y - 10$

11. $125x^3 - 343$

12. $x^2 - 6x + 9$

13. $5x^2 + 8x + 3$

14. $8k^2 - 3 - 10k$

15. $5x^3 - x^2 - 20x + 4$

16. $a^3 + 216$

17. $16x^2 - 36y^2$

18. $4a^3 - 8a^2b + 3ab^2$

Factor completely. If the polynomial is not factorable, write *prime*.

1. $x^2 - 25$

2. $10x^2 + 27x + 5$

3. $2x^3 - 8x^2 + x - 4$

4. $3p^2 - 21p - 28$

5. $a^2 - 18a + 72$

6. $25x^2 - 49$

7. $8w^3 - 60w^2 - 32w$

8. $12x^3 + 2x^2 - 30x - 5$

9. $-y^2 + 16y - 63$

10. $12y^3 - 21y^2 + 28y - 49$

11. $27x^3 - 1$

12. $x^2 + 11x - 42$

13. $7x^2 + 26x + 15$

14. $16v^2 - 54 - 12v$

15. $3x^3 + x^2 - 12x - 4$

16. $a^3 + 8$

17. $16x^2 + 36y^2$

18. $9x^2 - 30xy + 21y^2$