



Factoring

Special Factoring—Challenge

Factor, write prime if prime.

1. $a^2 - 36$

11. $1 - 8u + 16u^2$

2. $9x^2 - 49$

12. $a^2b^2 + 6ab + 9$

3. $169m^2 - 4u^2$

13. $x^2 + 2xy + y^2$

4. $x^2y^2 - 9z^4$

14. $4x^2 + 12xy + 9y^2$

5. $\frac{1}{4}x^2 - 25y^2$

15. $100h^2 + 20h + 1$

6. $\frac{1}{9}x^2 - 16$

16. $9a^2 - 24a + 16$

7. $64 - a^4b^4$

17. $4a^3 + 8a^2 + 4a$

8. $y^6 - 100$

18. $5c + 20c^2 + 20c^3$

9. $\frac{4}{9}x^2y^2 - \frac{25}{36}z^2$

19. $(x + 4)^2 - (y + 1)^2$

10. $y^8 - 81$

20. $(x - 1)^2 - 10(x - 1) + 25$