

— SHOW ALL WORK —

For 1-8, rewrite factored form as standard form.

1. $u^2(5u - 1)(3u + 1)$

2. $3u(4u + 3)(u + 3)$

3. $(u + 1)(u - 1)(u + 3)(u - 3)$

4. $2v(u - 7)(u - 2)$

5. $4(3u + 6)(u - 1)$

6. $(u^2 + 9)(u + 1)(u - 2)$

7. $4(3u + 2)(u - 3)$

8. $u^2(15u + 1)(u - 1)$

For 9-16, factor completely.

9. $2x^2 + 22x + 36$

10. $5x^3 - 10x^2 - 40x$

11. $18x^3 - 98x$

12. $ax^2 - 7ax + 12a$

13. $15u^4 + 2u^3 - u^2$

14. $2u^2v - 18uv + 28v$

15. $12u^3 + 36u^2 + 27u$

16. $x^4 + 8x^3 - 20x^2$