For Problems 1 through 40, find the LCM of the two expressions.

1. a^2bc, ab^2c

2. ax^2, $4a^2x$

3. $4x^3$, $6x^5$

4. $6pc^2$, $15p^2c$

5. $42a^3b$, $49b^2c$

6. $56r^5t$, $54r^3z^2$

7. $4x$, $4(a - x)$

8. a^2, $a(a - b)$

9. $2(a - x)$, $3(a + x)$

10. $5(x + 3)$, $6(x - 3)$

11. $3(a + x)$, $7(a + x)$

12. $9(x - 3)$, $11(x - 3)$

13. $c^2m(c - m)$, $cm^2(c - m)$

14. $p^3f(p + f)$, $p^2f^4(p + f)$

15. $xyz(x - y)$, xy

16. a^2b, $a^3b^2(a - b)$

17. $2a - 2b$, $4a - 4b$

18. $4a^2 - 9$, $6a^2 - 9a$

19. $j^2 - 9$, $j^2 + 3j$

20. $6r + 12t$, $8r + 16t$

21. $(x - y)^2$, $x^2 - y^2$

22. $(c + 5)^2$, $c^2 - 25$

23. $(x - 3)(x + 2)$, $(x + 2)(x - 7)$

24. $(x + 4)(x - 5)$, $(x - 1)(x + 4)$

25. $(x - 2)^5(x + 3)^2$, $(x + 2)^4(x + 3)^3$

26. $(x + 1)^7(x - 7)^6$, $(x - 7)^4(x + 5)$

27. $x^2 + 6x + 8$, $x^2 + 7x + 12$

28. $x^2 - 7x + 12$, $x^2 - 9x + 20$

29. $2x^2 + x - 3$, $x^2 + 4x - 5$

30. $3x^2 + 5x - 2$, $x^2 + 6x + 8$

31. $12x^2 + 36x + 24$, $18x^2 - 18$

32. $24x^2 - 96$, $18x^2 + 18x - 36$

33. $x^3 - 2x^2 - x + 2$, $x^2 - 3x + 2$

34. $x^3 + x^2 - 9x - 9$, $x^2 - 4x + 3$