

Answer Key

Practice B

1. 3 2. 6 3. 5 4. 4 5. yes 6. no 7. yes
8. yes 9. $(x - 3), (x - 1), (x - 2)$
10. $(x - 4), (x + 1), (x + 2), x$
11. $(x + 6), (x - 2), (x - 1), (x - 1)$
12. $(x + 3), (x - i), (x + i)$
13. $(x - 4), (x + 5), (x - 2i), (x + 2i)$
14. $(x - 3), (x - (2 + i)), (x - (2 - i))$
15. $f(x) = x^3 - 5x^2 + 2x + 8$
16. $f(x) = x^3 - 5x^2 + 7x - 3$
17. $f(x) = x^3 + x^2 - 6x$
18. $f(x) = x^3 + 2x^2 + x + 2$
19. $f(x) = x^4 - x^3 + 9x^2 - 9x$
20. $f(x) = x^4 - 3x^3 + 3x^2 - 3x + 2$
21. $f(x) = x^4 + 10x^2 + 9$
22. $f(x) = x^3 - 10x^2 + 33x - 34$
23. $f(x) = x^4 + 2x^2 + 8x + 5$ 24. $-1, i, -i$
25. $-3, -\frac{1}{2}, 2$ 26. $-4, 3i, -3i$
27. $-1, \frac{1}{2}, i, -i$ 28. $-2, 2, i, -i$
29. $-4, \frac{1}{3}, 2i, -2i$ 30. 1996 31. 5