

Exercises ^(A)

Factor:

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|----------------------|-----------------------|---------------------------|
| 1. $x^2 + 6x + 5$ | 17. $33x^2 + 14x + 1$ | 33. $1 + 8q + 12q^2$ |
| 2. $2x^2 + 3x + 1$ | 18. $21x^2 - 10x + 1$ | 34. $4y^2 - 12y + 5$ |
| 3. $x^2 + 4x + 3$ | 19. $6x^2 - 5x + 1$ | 35. $6 - 13a + 5a^2$ |
| 4. $3x^2 + 4x + 1$ | 20. $9x^2 - 6x + 1$ | 36. $1 + 6x + 9x^2$ |
| 5. $x^2 + 8x + 7$ | 21. $x^2 + 16x + 15$ | 37. $x^2 + 4xy + 3y^2$ |
| 6. $7x^2 + 8x + 1$ | 22. $2x^2 + 5x + 3$ | 38. $4a^2 - 16ab + 15b^2$ |
| 7. $x^2 - 6x + 5$ | 23. $2x^2 - 5x + 3$ | 39. $6x^2 + 17xz + 7z^2$ |
| 8. $2x^2 - 3x + 1$ | 24. $2a^2 - 7a + 3$ | 40. $6s^2 + 11s + 4$ |
| 9. $x^2 - 4x + 3$ | 25. $7x^2 - 8x + 1$ | 41. $a^2 + 3a + 2$ |
| 10. $3x^2 - 4x + 1$ | 26. $b^2 - 7b + 6$ | 42. $2a^2 - 5a + 2$ |
| 11. $x^2 + 5x + 6$ | 27. $x^2 - 7x + 10$ | 43. $3a^2 + 5a + 2$ |
| 12. $x^2 + 7x + 10$ | 28. $3y^2 + 7y + 2$ | 44. $5a^2 - 7a + 2$ |
| 13. $x^2 + 8x + 15$ | 29. $1 + 7p + 12p^2$ | 45. $3a^2 + 10a + 3$ |
| 14. $x^2 - 10x + 21$ | 30. $7x^2 - 9x + 2$ | 46. $x^2 - 5x + 4$ |
| 15. $x^2 - 13x + 22$ | 31. $7z^2 + 15z + 2$ | 47. $2x^2 - 9x + 7$ |
| 16. $10x^2 + 7x + 1$ | 32. $4x^2 - 7x + 3$ | 48. $3x^2 - 8x + 4$ |

Answers to Problems in Text - 61

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|--------------------------------|---------------------------------|
| <u>1.</u> $(x + 5)(x + 1)$ | <u>25.</u> $(7x - 1)(x - 1)$ |
| <u>2.</u> $(2x + 1)(x + 1)$ | <u>26.</u> $(b - 6)(b - 1)$ |
| <u>3.</u> $(x + 3)(x + 1)$ | <u>27.</u> $(x - 5)(x - 2)$ |
| <u>4.</u> $(3x + 1)(x + 1)$ | <u>28.</u> $(3y + 1)(y + 2)$ |
| <u>5.</u> $(x + 7)(x + 1)$ | <u>29.</u> $(1 + 4p)(1 + 3p)$ |
| <u>6.</u> $(7x + 1)(x + 1)$ | <u>30.</u> $(7x - 2)(x - 1)$ |
| <u>7.</u> $(x - 5)(x - 1)$ | <u>31.</u> $(7z + 1)(z + 2)$ |
| <u>8.</u> $(2x - 1)(x - 1)$ | <u>32.</u> $(4x - 3)(x - 1)$ |
| <u>9.</u> $(x - 3)(x - 1)$ | <u>33.</u> $(1 + 6q)(1 + 2q)$ |
| <u>10.</u> $(3x - 1)(x - 1)$ | <u>34.</u> $(2y - 5)(2y - 1)$ |
| <u>11.</u> $(x + 3)(x + 2)$ | <u>35.</u> $(3 - 5a)(2 - a)$ |
| <u>12.</u> $(x + 5)(x + 2)$ | <u>36.</u> $(1 + 3x)(1 + 3x)$ |
| <u>13.</u> $(x + 5)(x + 3)$ | <u>37.</u> $(x + y)(x + 3y)$ |
| <u>14.</u> $(x - 7)(x - 3)$ | <u>38.</u> $(2a - 5b)(2a - 3b)$ |
| <u>15.</u> $(x - 11)(x - 2)$ | <u>39.</u> $(3x + 7z)(2x + z)$ |
| <u>16.</u> $(5x + 1)(2x + 1)$ | <u>40.</u> $(3s + 4)(2s + 1)$ |
| <u>17.</u> $(11x + 1)(3x + 1)$ | <u>41.</u> $(a + 2)(a + 1)$ |
| <u>18.</u> $(7x - 1)(3x - 1)$ | <u>42.</u> $(2a - 1)(a - 2)$ |
| <u>19.</u> $(3x - 1)(2x - 1)$ | <u>43.</u> $(3a + 2)(a + 1)$ |
| <u>20.</u> $(3x - 1)(3x - 1)$ | <u>44.</u> $(5a - 2)(a - 1)$ |
| <u>21.</u> $(x + 15)(x + 1)$ | <u>45.</u> $(3a + 1)(a + 3)$ |
| <u>22.</u> $(2x + 3)(x + 1)$ | <u>46.</u> $(x - 4)(x - 1)$ |
| <u>23.</u> $(2x - 3)(x - 1)$ | <u>47.</u> $(2x - 7)(x - 1)$ |
| <u>24.</u> $(2a - 1)(a - 3)$ | <u>48.</u> $(3x - 2)(x - 2)$ |