

Chapter 9 Practice Quiz, lessons 5 - 7, 2018**Multiple Choice**

Identify the choice that best completes the statement or answers the question.

Factor the polynomial.

- _____ 1. $x^2 + 6x + 5$
- | | |
|-----------------|-----------------|
| a. $(x+1)(x-5)$ | c. $(x+1)(x+5)$ |
| b. $(x-1)(x-5)$ | d. $(x-1)(x+5)$ |

- _____ 2. $x^2 + 6x + 5$
- | | |
|-----------------|-----------------|
| a. $(x+1)(x-5)$ | c. $(x+1)(x+5)$ |
| b. $(x-1)(x-5)$ | d. $(x-1)(x+5)$ |

Solve the equation.

- _____ 3. $16g^2 + 40g + 25 = 0$
- | | |
|-----------------------|-----------------------|
| a. $g = -\frac{4}{5}$ | c. $g = -\frac{5}{4}$ |
| b. $g = \frac{4}{5}$ | d. $g = \frac{5}{4}$ |

Short Answer

Factor the polynomial.

4. $x^2 - 16x + 63$

5. $v^2 - v - 6$

6. $x^2 - 7x + 12$

Name: _____

ID: A

7. $x^2 - 3x - 10$

8. $y^2 + 6y - 16$

9. $x^2 - 16x + 63$

10. $v^2 - v - 6$

11. $x^2 - 7x + 12$

12. $y^2 + 6y - 16$

Solve the equation.

13. $x^2 + 6x - 27 = 0$

14. $x^2 - 6x - 16 = 0$

15. $x^2 + 5x + 6 = 0$

16. $x^2 + 4x - 5 = 0$

17. $x^2 - 3x - 54 = 0$

18. $x^2 + 5x + 6 = 0$

Name: _____

ID: A

Solve the equation.

19. $100g^2 + 240g + 144 = 0$

20. $3x^2 + 30x + 75 = 0$

Factor the polynomial.

21. $36t^2 - 16$

22. $400y^2 - 9$

23. $p^2 - 169q^2$

24. $2x^2 - 50y^2$

25. $x^2 + 6x + 9$

26. $4n^2 - 28n + 49$

27. $121x^2 - 44xy + 4y^2$

28. $-\frac{1}{2}s^2 - st - \frac{1}{2}t^2$

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Answer Section

MULTIPLE CHOICE

1. C
2. C
3. C

SHORT ANSWER

4. $(x-9)(x-7)$
5. $(v-3)(v+2)$
6. $(x-4)(x-3)$
7. $(x-5)(x+2)$
8. $y^2 + 6y - 16 = (y+8)(y-2)$
9. $(x-9)(x-7)$
10. $(v-3)(v+2)$
11. $(x-4)(x-3)$
12. $y^2 + 6y - 16 = (y+8)(y-2)$
13. $-9, 3$
14. $-2, 8$
15. $-3, -2$
16. $-5, 1$
17. $9, -6$
18. $-3, -2$
19. $g = -\frac{6}{5}$
20. $x = -5$
21. $2(3t-2)(3t+2)$
22. $(20y-3)(20y+3)$
23. $(p-13q)(p+13q)$
24. $2(x-5y)(x+5y)$
25. $(x+3)^2$
26. $(2n-7)^2$
27. $(11x-2y)^2$
28. $-\frac{1}{2}(s+t)^2$