

Unit 3 Test 1 Review Answer KEY

1. a. C b. D c. A d. B

2. a. C b. D c. A d. B

3. a. 3 b. 5 c. 4 d. 4

4. (sketch)

5. (sketch)

6. (sketch)

7. (sketch)

8. (sketch)

9. (sketch)

10. a. (sketch) b. 3

11. a. (sketch) b. 5

12. $y = -\frac{2}{3}x^2(x + 2)(x - 2)$

13. $-8x^3 + 3x^2 + 10$; 3 ; $-8x^3$; trinomial

14. $2x^5 - 2x^3 + x + 5$; 5 ; $2x^5$; polynomial

15. $3x^3 - 7x + 10$

16. $2x^3 + 6x^2$

17. $x^4 + 4x^2 + 4$

18. $-1(\text{mult. } 2)$; $-7(\text{mult. } 1)$

19. $0(\text{mult. } 1)$; $-1(\text{mult. } 1)$; $1(\text{mult. } 1)$

20. $(x + 2)(x - 3)^2$; $x^3 - 4x^2 - 3x + 18$

21. $(x - 2)(x + 3)(x + 1)$

22. $x^2 - 3x + 2$; $-2x^2 + 9x + 5$; $x^2 - x + 8 - \frac{12}{x+3}$;

$x^3 + x + \frac{1}{x-1}$; $x^3 - x^2 + x + 11 + \frac{32}{x-4}$;

$x^3 + 2x^2 + x + 2 - \frac{6}{x-2}$