

**Algebra Unit 7--Study Guide
Answer Section**

1. ANS:

$$7a^2 - 3b^2 + 2a + b - 5$$

REF: Lesson 7-5

2. ANS:

$$-4a^2 + 12a + 6$$

REF: Lesson 7-5

3. ANS:

$$-9p^2 - 6q^2 + 15p - q$$

REF: Lesson 7-5

4. ANS:

$$-4a^2 + 16a + 6$$

REF: Lesson 7-5

5. ANS:

$$-30r^5 + 24r^4 + 12r^3$$

REF: Lesson 7-6

6. ANS:

$$36s^8t^6 + 30s^5t^6 + 24s^4t^3$$

REF: Lesson 7-6

7. ANS:

$$25r^2 - 80r + 64$$

REF: Lesson 7-8

8. ANS:

$$36k^3 - 42k^2 + 64k - 45$$

REF: Lesson 7-7

9. ANS:

$$15t^2 + 24tv + 9v^2$$

REF: Lesson 7-7

10. ANS:

$$36c^2 + 108c + 81$$

REF: Lesson 7-8

11. ANS:

$$b^2 + 6b + 9$$

REF: Lesson 7-8

12. ANS:

$$25g^2 - 60gh + 36h^2$$

REF: Lesson 7-8

13. ANS:

$$r^2 - 6r - 27$$

REF: Lesson 7-7

14. ANS:

$$216g^{12}h^9$$

REF: Lesson 7-1

15. ANS:

$$5^5$$

REF: Lesson 7-2

16. ANS:

$$\frac{7n^8p^4}{m^6}$$

REF: Lesson 7-2

17. ANS:

$$\frac{a^{14}}{6b^4}$$

REF: Lesson 7-2

18. ANS:

$$\frac{a^2}{4}$$

REF: Lesson 7-2

19. ANS:

$$\frac{11n^8p^3}{m^4}$$

REF: Lesson 7-2

20. ANS:

$$a^8b^8$$

REF: Lesson 7-1

21. ANS:

$$-4h^3i^4j^5$$

REF: Lesson 7-1

22. ANS:

substitution; (3, - 3)

REF: Lesson 6-5

23. ANS:

elimination using multiplication; (3, - 1)

REF: Lesson 6-5

24. ANS:

7

REF: Lesson 7-4

25. ANS:

12

REF: Lesson 7-4

26. ANS:

9, 43

REF: Lesson 6-5

27. ANS:

$$9l^2 - 25$$

REF: Lesson 7-8

28. ANS:

$$9c^2 - 25$$

REF: Lesson 7-8

29. ANS:

$$-2x^3 + x^2y^5 + 5xy^3 + y^3$$

REF: Lesson 7-4

30. ANS:

400 adults, 300 children

REF: Lesson 6-4