

**Algebra Unit 9--Factoring and Solving Quadratics Study Guide
Answer Section**

1. ANS:

$$\{0, -4\}$$

REF: Lesson 8-2

2. ANS:

$$\left\{\frac{1}{3}, -2\right\}$$

REF: Lesson 8-2

3. ANS:

$$\left\{0, -\frac{9}{4}\right\}$$

REF: Lesson 8-2

4. ANS:

$$\{3, -6\}$$

REF: Lesson 8-2

5. ANS:

$$\left\{\frac{1}{2}, -2\right\}$$

REF: Lesson 8-2

6. ANS:

$$\left\{0, \frac{5}{4}\right\}$$

REF: Lesson 8-2

7. ANS:

$$\{-2, 4\}$$

REF: Lesson 8-2

8. ANS:

$$-7 \pm \sqrt{78}$$

REF: Lesson 9-5

9. ANS:

$$\frac{9 \pm 5\sqrt{3}}{2}$$

REF: Lesson 9-5

10. ANS:

$$-4 \pm \sqrt{38}$$

REF: Lesson 9-5

11. ANS:

$$12j^2(k - 3j^4k^6 + 1)$$

REF: Lesson 8-2

12. ANS:

$$2(5g + 7h)$$

REF: Lesson 8-2

13. ANS:

$$\{-7, 5\}$$

REF: Lesson 8-3

14. ANS:

$$\{-12, 8\}$$

REF: Lesson 8-3

15. ANS:

$$14s^2t$$

REF: Lesson 8-1

16. ANS:

$$3xy^2$$

REF: Lesson 8-1

17. ANS:

$$3 \cdot 3 \cdot 7 \cdot a \cdot a \cdot a \cdot b \cdot b \cdot b$$

REF: Lesson 8-1

18. ANS:

$$(y - 2)(2x + 3)$$

19. ANS:

$$-\frac{3}{4}, \frac{2}{3}$$

20. ANS:

$$(x + 4)(x - 12)$$

REF: Lesson 8-3

21. ANS:

$$(x + 2)(x - 11)$$

REF: Lesson 8-3

22. ANS:
 $(x + 12)(x + 2)$

REF: Lesson 8-3

23. ANS:
 $(x + 1)(x + 14)$

REF: Lesson 8-3

24. ANS:
 $6\sqrt{2}$

25. ANS:
 $22\sqrt{6}$

26. ANS:
 $-\frac{1}{3}, \frac{3}{5}$

27. ANS:
 $(3y - 4)(x + 2)$

28. ANS: B

29. ANS: D