

Name: _____ Hour: _____ Date: _____

QUICK REVIEW – Sections 9.1 – 9.3

Goals: #1 - I can evaluate and approximate square roots.



#2 - I can solve a quadratic equation by finding square roots.

#3 - I can simplify radical expressions.

List perfect squares below:

2^2	3^2	4^2	5^2	6^2	7^2	8^2	9^2	10^2	11^2	12^2	13^2	14^2	15^2

Let's keep practicing!: Evaluate the expression.

1. $\sqrt{169}$

2. $-\sqrt{81}$

3. $\pm\sqrt{400}$

4. $-\sqrt{121}$

5. $-\sqrt{196}$

6. $\sqrt{900}$

7. $-\sqrt{100}$

8. $\pm\sqrt{64}$

Determine whether the number is a perfect square.

9. 34

10. 49

11. 25

12. 500

13. -9

14. 101

15. 8

16. 81

Name: _____ Hour: _____ Date: _____

Simplify the expression.

1. $\sqrt{40}$

2. $-\sqrt{18}$

3. $\sqrt{32}$

4. $\sqrt{48}$

5. $\frac{1}{3}\sqrt{45}$

6. $\sqrt{300}$

7. $\frac{1}{2}\sqrt{128}$

8. $\sqrt{108}$

9. $\sqrt{\frac{16}{25}}$

10. $\sqrt{\frac{7}{9}}$

11. $-\sqrt{\frac{8}{2}}$

12. $\sqrt{\frac{11}{36}}$

13. $\sqrt{\frac{3}{10}}$

14. $\sqrt{\frac{1}{7}}$

15. $2\sqrt{\frac{16}{3}}$

Name: _____ Hour: _____ Date: _____

Solve the equation or write *no real solution*. Write the solutions as integers, if possible. Otherwise, write them as radical expressions.

1. $x^2 = 25$

2. $y^2 = 81$

3. $3a^2 = 147$

4. $x^2 + 4 = 16$

5. $2b^2 - 7 = -7$

6. $16 - x^2 = 12$

7. $3 - x^2 = 50$

8. $8 - 2x^2 = -33$

9. $3x^2 - 58 = 50$

10. $5x^2 + 20 = 4$