

Name: _____ Solving Quadratics – Square Root Method Wksht

Solve using the square root method. Answers can be in radical or decimal form.

1. $4x^2 + 13 = 49$

2. $-2 - 10x^2 = -12$

3. $9x^2 - 81 = 0$

4. $4x^2 + 14 = 78$

5. $-2x^2 + 1 = -79$

6. $7x^2 - 5 = 107$

7. $4x^2 + 5 = -11$

8. $3(x + 5)^2 + 8 = 35$

9. $3x^2 - 12 = 96$

10. $-5x^2 + 8 = 9$

Answers (in random order and may be repeated):

$\pm 2\sqrt{10}$; ± 4 ; ± 3 ; no real roots; ± 1 ; ± 6 ; -2 and -8