

College Prep Algebra
Worksheet 16 , Solving Quadratic Equations
Answer Key

1) $\{3, -2\}$

2) $\{0, 5\}$

3) $\{6, -1\}$

4) $\{-7, -2\}$

5) $\{0, \frac{5}{3}\}$

6) $\{4, -3\}$

7) $\{7, -3\}$

8) $\{5, -5\}$

9) $\{-7, 5\}$

10) $\{-\frac{5}{2}, \frac{5}{2}\}$

11) $\{-8, 4\}$

12) $\{-\frac{5}{2}\}$

13) $\{9, -4\}$

14) $\{0, 4\}$

15) $\{0, -\frac{1}{2}, \frac{1}{2}\}$

16) $\{-4, \frac{7}{2}\}$

Checks for # 1 - 15 odd:

1) $(3+2)(3-3) = 0$
 $(5)(0)$
0

$(-2+2)(-2-3) = 0$
 $(0)(-5)$
0

3) $6^2 - 5(6) - 6 = 0$
 $36 - 30 - 6$
0

$(-1)^2 - 5(-1) - 6 = 0$
 $1 + 5 - 6$
0

5) $6(0)^2 - 10(0) = 0$
 $6(0) - 10(0)$
 $0 - 0$
0

$6(\frac{5}{3})^2 - 10(\frac{5}{3}) = 0$
 $6(\frac{25}{9}) - 10(\frac{5}{3})$
 $\frac{50}{3} - \frac{50}{3}$
0

7) $7^2 - 4(7) = 21$
 $49 - 28$
21

$(-3)^2 - 4(-3) = 21$
 $9 + 12$
21

9) $-7(-7+2) = 35$
 $-7(-5)$
35

$5(5+2) = 35$
 $5(7)$
35

11) $(-8)^2 = 32 - 4(-8)$
64 $32 + 32$
64

$4^2 = 32 - 4(4)$
16 $32 - 16$
16

13) $(9+1)((9-6) = 30$
 $(10)(3)$
30

$(-4+1)(-4-6) = 30$
 $(-3)(-10)$
30

15) $8(0)^3 = 2(0)$
 $8(0)$ **0**
0

$8(-\frac{1}{2})^3 = 2(-\frac{1}{2})$
 $8(-\frac{1}{8})$ **-1**
-1

$8(\frac{1}{2})^3 = 2(\frac{1}{2})$
 $8(\frac{1}{8})$ **1**
1