

SM2H 3.6 – Solve by Square Root Principle

1. $5\sqrt{2}$
2. $26\sqrt{2}$
3. $3i\sqrt{5}$
4. $6i\sqrt{2}$
5. $a = \pm 2$
6. $b = \pm 2\sqrt{6}$
7. $c = \pm 7i$
8. $d = \pm 3$
9. $h = \pm i\sqrt{11}$
10. $k = \pm i\sqrt{2}$
11. $m = 6, -14$
12. $m = \pm 4\sqrt{6}$
13. $p = -1, -5$
14. $r = -2 \pm 2\sqrt{5}$
15. $t = 4 \pm 2i\sqrt{3}$
16. $v = 2 \pm 4\sqrt{3}$
17. $w = 1 \pm 3i$
18. $z = -\frac{1}{3} \pm \frac{2}{3}i$
19. $x = \pm 3\sqrt{2}$
20. $x = \pm 10i$
21. $y = -\frac{1}{6} \pm 2\sqrt{3}$
22. $x = 4$
23. $x = -2 \pm \sqrt{2}$
24. $x = 8$
25. $x = -9 \pm 3\sqrt{2}$
26. $x = -3 \pm 2i$
27. $x = 2, -18$
28. $x = 9, -3$
- 29.
30. a) 80 ft
b) 128 ft
c) 5 seconds
31. domain: $(-\infty, \infty)$
range: $(-\infty, 9]$
 $-\infty$
 $-\infty$