

# Radical Functions ... Set 1

## Solving Radical Equations Worksheet

1. Solve for  $x$ .  
 $15 = 9 + \sqrt{x}$

2. Solve for  $y$ .  
 $\sqrt{y-8} + 5 = 7$

3. Solve for  $z$ .  
 $\sqrt{3z+4} = 5$

4. Solve for  $w$ .  
 $\sqrt{5w+3} = \sqrt{4w+5}$

5. Solve for  $p$ .  
 $\sqrt{p+16} + 4 = p$

6. Solve for  $m$ .  
 $\sqrt{m-1} + 5 = m - 2$

7. Solve for  $n$ .  
 $\sqrt{3n+10} = n + 4$

8. Solve for  $r$ .  
 $\sqrt{10-13r} = r - 4$

9. Solve for  $k$ .  
 $\sqrt{k-9} - \sqrt{k} = -1$

10. Solve for  $h$ .  
 $\sqrt{2h-5} = 1 - \sqrt{h-3}$

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### Answers

1.  $x = 36$

2.  $y = 12$

3.  $z = 7$

4.  $w = 2$

5.  $p = 9$

6.  $m = 10$

7.  $n = -2$  or  $n = -3$

8. No solution

9.  $k = 25$

10.  $h = 3$