

Math 3 Advanced  
11.2 Simplify Radicals

Solve.

1.  $\sqrt{p+15} = 3$

2.  $\sqrt{2+3a} = 6$

3.  $3 - \sqrt{2m+2} = 8$

4.  $6 + 3\sqrt{k+4} = 18$

5.  $\sqrt{2m-1} = \frac{6}{\sqrt{2m-1}}$

6.  $5 = \frac{2}{\sqrt{m-3}}$

7.  $\sqrt{3p+13} = 2p-3$

8.  $\sqrt{x^2-3x+3} = x+1$

9.  $5x^{\frac{1}{6}} - 2x^{\frac{1}{3}} = 2$

10.  $2c^{\frac{1}{3}} + 1 = 3c^{\frac{1}{6}}$

**Answer List**

- |                       |                       |
|-----------------------|-----------------------|
| 1. $-6$               | 2. $\frac{34}{3}$     |
| 3. $\emptyset$        | 4. $12$               |
| 5. $\frac{7}{2}$      | 6. $\frac{79}{25}$    |
| 7. $4$                | 8. $\frac{2}{5}$      |
| 9. $\frac{1}{64}, 64$ | 10. $\frac{1}{64}, 1$ |

**Catalog List**

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|---------------|----------------|---------------|---------------|
| 1. TRI BJ 33  | 2. TRI BJ 37   | 3. TRI BJ 41  | 4. TRI BJ 45  |
| 5. TRI BJ 81  | 6. TRI BJ 85   | 7. TRI BJ 121 | 8. TRI BJ 125 |
| 9. TRI BJ 193 | 10. TRI BJ 195 |               |               |