

Practice Problems

Perform the indicated operation and reduce all radicals.

1) $6 - \sqrt{y-5} = 3$

2) $\sqrt{2-x} + 3 = x + 7$

3) $\sqrt{x} + 4 = 0$

4) $\sqrt{4y+1} = y-1$

5) $\sqrt{2p+3} = \sqrt{5p-3}$

6) $\sqrt{5x+4} = 3\sqrt{x}$

7) $2x = \sqrt{4x^2 + 6x - 12}$

8) $\sqrt{2x} = \sqrt{x+7} - 1$

9) $\sqrt{x-1} = 4$

10) $\sqrt{x-2} + \sqrt{x-13} = 11$

Answer Key

1) $y = 14$

2) $x = -2$

3) No solution

4) $y = 6$

5) $p = 2$

6) $x = 1$

7) $x = 2$

8) $x = 2$

9) $x = 17$

10) $x = 38$