

Learning Goal 4.3 Practice

Date _____

Solve for the variable algebraically. Remember to check for extraneous solutions.

1) $n = \sqrt{-70 + 17n}$

2) $\sqrt{27 + 6n} = n$

3) $2 + \sqrt{4x - 8} = x$

4) $-3 = \sqrt{3k - 11} - k$

5) $v + 4 = \sqrt{6v + 15}$

6) $v + 4 = \sqrt{2v + 32}$

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Solve for the variable algebraically. Remember to check for extraneous solutions.

1) $n = \sqrt{-70 + 17n}$

 $\{7, 10\}$

2) $\sqrt{27 + 6n} = n$

 $\{9\}$

3) $2 + \sqrt{4x - 8} = x$

 $\{6, 2\}$

4) $-3 = \sqrt{3k - 11} - k$

 $\{4, 5\}$

5) $v + 4 = \sqrt{6v + 15}$

 $\{-1\}$

6) $v + 4 = \sqrt{2v + 32}$

 $\{2\}$