

Study Guide - Section 8.7 and 8.8

Solve each equation. Remember to check for extraneous solutions.

1) $\sqrt{3n-1} = \sqrt{2n}$

2) $\sqrt{b+3} - 1 = b$

3) $x = \sqrt{90-x}$

4) $\sqrt{2n+3} = n+2$

5) $\sqrt{-2-3m} - \sqrt{3-3m} = -1$

6) $x-2 = \sqrt{24-5x}$

$$7) \sqrt{15 - 2m} = 1$$

$$8) -2 = \sqrt{5 - 2n} - \sqrt{3n + 3}$$

$$9) \sqrt{-8 + 9b} = b$$

$$10) 2 - \sqrt{1 - 3a} = \sqrt{1 - a}$$

$$11) (3x + 20)^{\frac{1}{2}} = (-4 - x)^{\frac{1}{2}}$$

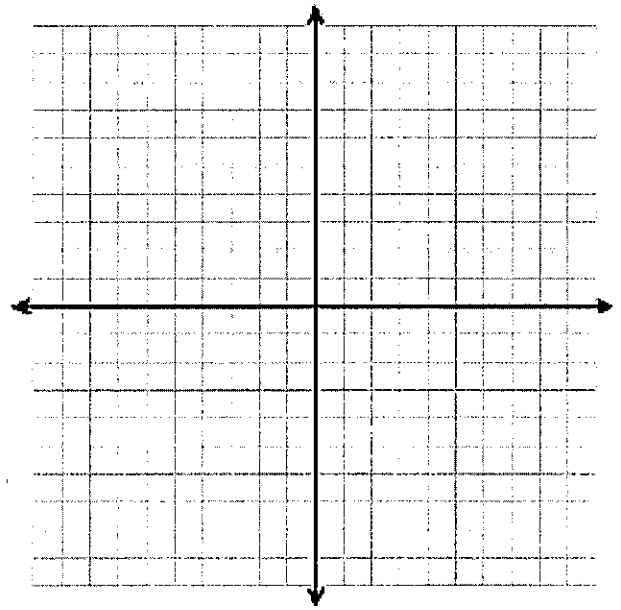
$$12) 1 + (6n - 6)^{\frac{1}{2}} = n$$

1. Graph the following radical function, then identify the domain and range.

$$y = -\sqrt{x + 4} - 2$$

Domain: _____

Range: _____



2. Graph the following radical function, then identify the domain and range.

$$y = \sqrt{-(x - 1)} + 3$$

Domain: _____

Range: _____

