

Section 12.3 Worksheet

Name: _____

Solve the equation. Check for extraneous solutions.

1.) $3\sqrt{x} - 6 = 0$

2.) $\sqrt{3x} + 4 = 16$

3.) $\sqrt{5x} + 5 = 0$

4.) $2\sqrt{x-4} - 2 = 2$

5.) $5\sqrt{x-3} + 4 = 14$

6.) $\sqrt{x+7} + 5 = 11$

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

8.) $\sqrt{7-2x} = \sqrt{9-x}$

9.) $\sqrt{3x+8} = \sqrt{x+4}$

10.) $x = \sqrt{42-x}$

11.) $x = \sqrt{4-3x}$

REVIEW:

Simplify the expression.

12.) $12\sqrt{7} - 8\sqrt{7}$

13.) $10\sqrt{5} + 3\sqrt{7} - \sqrt{7} - 2\sqrt{7}$

14.) $\sqrt{3}(8 - \sqrt{3})$

15.) $\sqrt{32}$

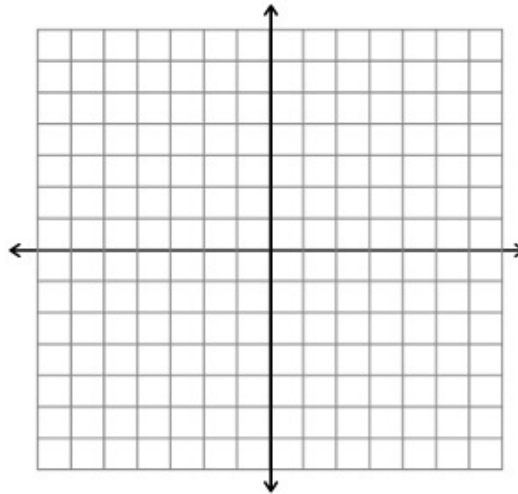
16.) $\sqrt{40}$

17.) $\sqrt{\frac{4}{5}}$

Graph the function. State the domain and range.

18.) $y = 2\sqrt{x - 3}$

x	y



Domain: _____

Range: _____