

## Daily Agenda

## Learning Targets:

I can simplify radical expressions.  
I can solve radical equations.

## Homework

6.1 and 6.2 Review WS

## Assessments

6.1 to 6.2 Quiz 12/7

Unit 6 Test 12/13

Skills Test 12/14

Final Exam 12/20

There is no substitute for hard work.

-Thomas Edison

Nov 15-8:24 PM

①  $\frac{4-2\sqrt{2}}{3}$

②  $28\sqrt[3]{4}$

③  $-3-2\sqrt{2}$

④  $38+16\sqrt{3}$

⑤  $x=4$   
-1 is ext.

Dec 6-11:08 AM

Find the solution set of the following equation.

$$(\sqrt{x+5}-1)^2 = (\sqrt{x})^2$$

$$(\sqrt{x+5}-1)(\sqrt{x+5}+1) = (\sqrt{x})^2$$

$$x+5 - \sqrt{x+5} - \sqrt{x+5} + 1 = x$$

$$-2\sqrt{x+5} + x + 6 = x$$

$$\frac{-2\sqrt{x+5}}{-2} = \frac{-6}{-2}$$

$$\sqrt{x+5} = 3 \quad x=4$$

Jan 27-6:50 AM

Find the solution set of the following equation.

$$\left(\frac{\sqrt{x}}{\sqrt{x-1}} + 3 = \frac{1}{\sqrt{x-1}} - 1\right)(\sqrt{x}-1)$$

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

$$\sqrt{x} + 3\sqrt{x} - 3 = 1 - \sqrt{x} + 1$$

$$4\sqrt{x} - 3 = 2 - \sqrt{x}$$

$$\frac{5\sqrt{x} - 3}{+3+3} = \frac{2}{+3+3}$$

$$\frac{5\sqrt{x}}{5} = \frac{5}{5}$$

$$\sqrt{x} = 1$$

$$x = 1$$

no solution  
1 is extraneous

Jan 27-6:50 AM