Unit 1: Radicals Equipment Room



## Unit 1: Radicals Lesson 1.2

## Coach's Corner - III

1. Simplify the following. Use exact values only and show all steps.

a. 
$$4\sqrt{2} + 4\sqrt{2} - 2\sqrt{8}$$
  
 $= 8\sqrt{2} - 2\sqrt{2^2 \times 2}$   
 $= 8\sqrt{2} - 2 \times 2\sqrt{2}$   
 $= 8\sqrt{2} - 4\sqrt{2}$   
 $= 4\sqrt{2}$ 

b. 
$$2\sqrt{8} + 3\sqrt{18} - \sqrt{50}$$
  
 $= 2\sqrt{2^2 \times 2} + 3\sqrt{3^2 \times 2} - \sqrt{5^2 \times 2}$   
 $= 2 \times 2\sqrt{2} + 3 \times 3\sqrt{2} - 5\sqrt{2}$   
 $= 4\sqrt{2} + 9\sqrt{2} - 5\sqrt{2}$   
 $= 8\sqrt{2}$ 

c. 
$$4\sqrt{2} + 3\sqrt{2} - \sqrt{16}$$
  
=  $7\sqrt{2} - 4$ 

Please return to *Unit 1: Radicals Lesson 1.2* to continue your training.

ADLC Mathematics 20-2