## Equations with Radicals 02/29/2012

Student Name:	
Class:	
Date:	
Instructions:	Read each question carefully and select the correct answer.
1. The square roo Find the soluti	t of the phrase, three multiplied by a number that is added to ten, is a number added to four. on set.

- **A.** x = -3, x = -2**B.** x = -12, x = -8
- C. x = -5/4, x = -1/2
- **D.** x = -5, x = -1
- 2. A possible step to solving this sentence could be:

"8 is 1 less than the cube root of three times *x*."

- **A.** adding 1 to both sides
- **B.** subtracting 1 from both sides
- **C.** adding 3 to both sides
- **D.** subtracting 3 from both sides
- **3.** A possible step to solving this sentence could be:

"The cube root of 3 more than *x* is 2."

- A. squaring 2
- **B.** cubing 2
- **C.** subtracting 9
- **D.** subtracting 27

**4.** Find the error in the steps to solve the following equation and choose the option that states how to correct the error.

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Step 1: \sqrt{x} +11 = 20
Step 2: \sqrt{x} = 9
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- **A.** square nine to get eighty one in step 4
- **B.** square the phrase "the square root of *x* plus 11" in step 1
- C. square both sides in to get x squared in step 3
- **D.** take the square root of both sides in step 1