Name_____   Period _____
Algebra 2   Circle: AC   or   BD

Long-term Assignment #5   ***Due***_____
28 total points

1. Use the product property of radicals to rewrite the following radicals in an equivalent form. (2 points each)

   a. $\sqrt{300}$ b. $\sqrt{243}$

Solve each radical equation. Check your solution(s) using technology.

2. $7 = \sqrt{2x - 5}$ (2 points)

3. $\sqrt{3x - 5} > 5$ (2 points)

4. $\sqrt[3]{x - 4} - 5 = -3$ (3 points)

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5. $4 - \sqrt{2x-5} = 1$ (3 points)

6. $3\sqrt{2x+5} - 15 = 0$ (3 points)

7. $\sqrt{5-x} + 3 = x$ (4 points)

8. $x = 2\sqrt{2x-3}$ (4 points)

9. Tijanna says that the radical equation, $\sqrt{3x-6} - 3\sqrt{x} = 0$ has no solution. Is she correct?
    Explain how you know. (3 points)