Name: _____   **Unit 11:** Radicals

Date: _____ **Bell:** _____   **Homework 3:** Adding/Subtracting Radicals

Directions: Find each sum or difference. Write your answer in simplest radical form.	
1. $\sqrt{2}+\sqrt{2}$	**2.** $-2\sqrt{18}+2\sqrt{2}$
3. $-5\sqrt{243}-3\sqrt{27}$	**4.** $\sqrt{500}+\sqrt{20}+11\sqrt{5}$
5. $2\sqrt{45}+2\sqrt{90}+3\sqrt{45}$	**6.** $3\sqrt{54}+3\sqrt{3}-2\sqrt{384}$
7. $3\sqrt{7}+2\sqrt{32}-4\sqrt{175}$	**8.** $\sqrt{20}+2\sqrt{80}+\sqrt{72}-\sqrt{5}$
9. $-3\sqrt{28}+8\sqrt{3}-\sqrt{300}+7\sqrt{112}$	**10.** $4\sqrt{24}-2\sqrt{80}+11\sqrt{6}-3\sqrt{216}$
11. The perimeter of a triangle is $16\sqrt{7}$ feet. If two of the sides measure $\sqrt{343}$ feet and $\sqrt{175}$, find the length of the third side as a radical in simplest form.	