Math 20-1 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Assignment 1: Add, Subtract, Multiply, and Divide Radicals

Perform the indicated operation on the following expressions; express all answers in simplified mixed radical form.

1. $\sqrt{20}+$ $\sqrt{18} + \sqrt{45}- \sqrt{50} $ 2. $\sqrt{72a^{3}}- 2\sqrt{12a^{3}}$

3. $\left(4\sqrt{19x}\right)\left(\sqrt{2x^{2}}\right)$ 4. $2\sqrt{3}\left(14\sqrt{5}-6\sqrt{3}\right)$

1. $\left(3+6\sqrt{18}\right)\left(5-\sqrt{27}\right)$ 6. $\frac{25\sqrt{80}}{5\sqrt{10}}$

7.  8. 

9.  10. 

11.  12. 