

Student ID		

Last Name: _____

First Name: _____

Show all your work.
If necessary, use extra sheets.

When appropriate,
BOX your final answer.

M\$5
Homework

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1. Simplify: $\sqrt{63} - \sqrt{28}$

2. Simplify: $\sqrt{160} - \sqrt{40} + \sqrt{90}$

3. Simplify: $4\sqrt{27} - 6\sqrt{\frac{3}{4}} + 8\sqrt{48}$

4. Simplify: $\frac{\sqrt{50} - \sqrt{8}}{4\sqrt{2}}$

5. Simplify: $(9 - \sqrt{2})(7 + \sqrt{2})$

6. When two resistors are connected in a parallel circuit, the total resistance is $\frac{1}{\frac{1}{R_1} + \frac{1}{R_2}}$. This complex fraction is equivalent to

Show your work.

(1) $R_1 + R_2$

(3) $R_1 R_2$

(2) $\frac{R_1 + R_2}{R_1 R_2}$

(4) $\frac{R_1 R_2}{R_1 + R_2}$