

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: a) $\sqrt[4]{81x^{16}y^8}$

b) $2\sqrt{13} + (\sqrt{256} - \sqrt{52})$

2. Simplify: $\frac{8\sqrt{24} + 12\sqrt{2}}{4\sqrt{2}}$

3. Rationalize the denominator:

a) $\frac{6}{\sqrt{27}}$

b) $\frac{\sqrt{6}}{4\sqrt{2}}$

4. Rationalize the denominator:

a) $\frac{9}{5 - \sqrt{13}}$

b) $\frac{5\sqrt{2} + 1}{2\sqrt{2} - 1}$

5. Solve: $\frac{2}{y+5} + \frac{20}{y^2 - 25} = 1$

6. Solve, state the solution set, and graph the solution set on a number line: $x^2 + x - 2 < 12x - 32$