Algebra I
11-8
Adding and Subtracting Radicals

Simplify.

*1) $3\sqrt{2} + 5\sqrt{2}$

$8\sqrt{2}$

*2) $7\sqrt{5} + 5\sqrt{7}$

can't do
as is

Simplify. For part
a) simplify,
b) round to the nearest hundredth.

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1) $8\sqrt{3} - 6\sqrt{3}$

a) $2\sqrt{3}$
b) 3.46

5) $5\sqrt{3} + 2\sqrt{75}$

$5\sqrt{3} + 2\sqrt{25 \cdot 3}$
$5\sqrt{3} + 10\sqrt{3}$
a) $15\sqrt{3}$
b) 25.98

Simplify. For part
a) simplify,
b) round to the nearest hundredth.

15) $5\sqrt{28} + 2\sqrt{7} - \sqrt{14}$

$5\sqrt{4 \cdot 7} + 2\sqrt{7} - \sqrt{14}$
$10\sqrt{7} + 2\sqrt{7} - \sqrt{14}$
a) $12\sqrt{7} - \sqrt{14}$
b) 28.01

19) $\sqrt{55} - 7\sqrt{\frac{5}{11}}$

$\sqrt{55} - \frac{7\sqrt{5}}{\sqrt{11}} \cdot \frac{\sqrt{11}}{\sqrt{11}}$
common denom. $\frac{11\sqrt{55}}{11} - \frac{7\sqrt{55}}{11}$
a) $\frac{4\sqrt{55}}{11}$
b) 2.70

Simplify. For part
a) simplify,
b) round to the nearest hundredth.

23) $\sqrt{\frac{5}{11}} - \sqrt{\frac{11}{5}}$

$\frac{\sqrt{5}}{\sqrt{11}} \cdot \frac{\sqrt{11}}{\sqrt{11}} - \frac{\sqrt{11}}{\sqrt{5}} \cdot \frac{\sqrt{5}}{\sqrt{5}}$

$\frac{5}{5 \cdot 11}\sqrt{55} - \frac{11}{11 \cdot 5}\sqrt{55}$

$\frac{5\sqrt{55}}{55} - \frac{11\sqrt{55}}{55}$

a) $\frac{-6\sqrt{55}}{55}$ b) -0.81

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2-32 even
part a + b
For each