Section 2.3 and 2.4 - Final Exam Prep

Answer the following three questions, show as many steps as you need to, write clearly and neatly.

1	Perform	the	following	operations
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$$\sqrt{48} + \sqrt{8} - \sqrt{27} - \sqrt{32}$$

2. Perform the following operations

$$\frac{2}{3}\sqrt{12} - \frac{5}{2}\sqrt{48} + \frac{1}{4}\sqrt{108}$$

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$$(3\sqrt{x} + \sqrt{y})(3\sqrt{x} - \sqrt{y})$$

$$\sqrt{2x}(\sqrt{2}-\sqrt{x})$$

$$\frac{5}{\sqrt[3]{2}}$$

6. Rationalize the Denominator

$$\frac{\sqrt{y}}{\sqrt{x} + \sqrt{y}}$$