

Warm - Up
4/18/19

Rationalize the denominator and simplify

$$-\frac{2\sqrt{3}}{\sqrt{12}} \times \frac{\sqrt{12}}{\sqrt{12}} = -\frac{2\sqrt{36}}{\sqrt{144}} = -\frac{2\sqrt{36}}{12}$$

$$\rightarrow -\frac{2 \cdot 6}{12} = -\frac{12}{12} = \textcircled{-1}$$

$$-\frac{\cancel{2 \cdot \sqrt{3}}}{\sqrt{4} \cdot \cancel{\sqrt{3}}} = -\frac{\cancel{2}}{\cancel{2}} = -1$$

Day 3

Rationalizing the Denominator

Combining the Two Ideas

Simplify

$$\sqrt{\frac{1}{6}} = \frac{\sqrt{1}}{\sqrt{6}} \cdot \frac{\sqrt{6}}{\sqrt{6}} = \frac{\sqrt{6}}{\sqrt{6 \cdot 6}} = \frac{\sqrt{6}}{\sqrt{36}}$$

Simplify

$$\sqrt{\frac{36}{7}} = \frac{\sqrt{36}}{\sqrt{7}} = \frac{6}{\sqrt{7}} \cdot \frac{\sqrt{7}}{\sqrt{7}} = \frac{6\sqrt{7}}{7}$$



Simplify

$$2\sqrt{\frac{6}{8}} \Rightarrow 2\frac{\sqrt{6}}{\sqrt{8}} \cdot \frac{\sqrt{8}}{\sqrt{8}} \Rightarrow 2\frac{\sqrt{48}}{8}$$

$$2\sqrt{\frac{4 \cdot 3}{4 \cdot 4}} = 2\sqrt{\frac{3}{4}}$$

$$\frac{2\sqrt{48}}{8} \quad \frac{\sqrt{48}}{4} \quad \sqrt{3 \cdot 16}$$

$$\frac{\sqrt{12}}{4} \quad \frac{\sqrt{4}}{2} \quad 2 \cdot \frac{\sqrt{3}}{2}$$

$$\frac{\sqrt{12}}{4} \quad 2$$

$$\frac{1}{2} \sqrt{3}$$

$$\frac{\sqrt{4} \cdot \sqrt{3} \cdot 2}{4} \quad \frac{2\sqrt{3}}{4}$$

$$\frac{\cancel{4}\sqrt{3}}{\cancel{4}}$$

$$\sqrt{3}$$

New Homework (due Tue)
p. 123 (27 - 34)

Homework (due Friday)
p. 121 (9 - 18)
p. 122 (19 - 26)