Warm - Up 4/10

Simplify

$$3\sqrt{12} - \sqrt{3}$$

$3\sqrt{4}\cdot\sqrt{3} - 1\sqrt{3}$

$3 \cdot 2\sqrt{3} = 6\sqrt{3}$

$6 - 1 = 5\sqrt{3}$

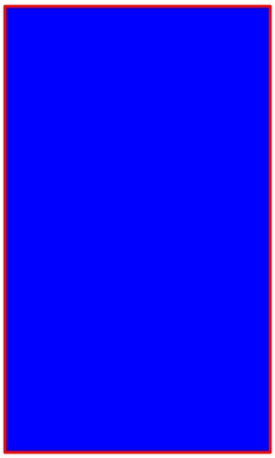
$6\sqrt{3} - 1\sqrt{3}$

Homework (due TOMORROW)

p.116 (5 - 11)
p.117 (12 - 20)

Simplify

$$\frac{\sqrt{5}+\sqrt{45}}{\sqrt{5}-\sqrt{45}}$$



$$\frac{\sqrt{5}+3\sqrt{5}}{\sqrt{5}-3\sqrt{5}}$$

$$\frac{4\sqrt{5}}{-2\sqrt{5}}$$

$$-2$$

Simplify

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

$$2\sqrt{2} - \sqrt{3 \cdot 3 \cdot 2}$$

$$2\sqrt{2} - 3\sqrt{2}$$

$$(2-3)\sqrt{2}$$

$$\boxed{-\sqrt{2}}$$

Simplify

$$\sqrt{5}\left(2+\sqrt{5}\right)$$

$$2\sqrt{5}+\sqrt{5}\sqrt{5}$$

$$2\sqrt{5}+\left(\sqrt{5}\right)^2$$

$$2\sqrt{5}+\sqrt{25}$$

$$2\sqrt{5}+5$$

$$5+2\sqrt{5}$$

$$\sqrt{2}(1+\sqrt{6})$$

$$\sqrt{2}+\sqrt{2}\cdot\sqrt{6} = \sqrt{2}+\sqrt{12}$$

$$\sqrt{2}+\sqrt{2\cdot 2\cdot 3} \qquad \sqrt{2}+\sqrt{4}\cdot\sqrt{3}$$

$$\sqrt{2}+\sqrt{4}\cdot\sqrt{3}$$

$$\sqrt{2}+2\sqrt{3}$$

$$-\sqrt{6}\left(\sqrt{2}+\sqrt{3}\right)$$

$$-\sqrt{12}+\sqrt{18}$$

$$-\sqrt{4\times 3}+\sqrt{9\times 2}$$

$$-2\sqrt{3}+3\sqrt{2}$$

Homework (due Fri)
p.118 (21 - 28)