6.3 - I will simplify products and quotients of roots

$$\sqrt{20} \cdot \sqrt{6} = \sqrt{20.6} = \sqrt{222.3.5} = 2\sqrt{30}$$

$$\sqrt[3]{12x^5y^8} = \sqrt[3]{20x^2y^4} = \sqrt[3]{12020x^6xy^{12}} = \sqrt[3]{2^32560x^5}$$

$$2x \sqrt[4]{\log x^{5}} \sqrt{7} \cdot 3x \sqrt[4]{70} x^{3} \sqrt{10}$$

$$= 6x^{2} \sqrt[4]{\log 70} x^{8} \sqrt{10} \sqrt{10}$$

$$= 6x^{2} \sqrt[4]{2} \cdot 5.7 \sqrt[4]{6} \sqrt{10}$$

$$= 12x^{4} \sqrt{4} \sqrt{10} \sqrt{10}$$

$$\frac{\sqrt{12}}{\sqrt{5}} = \sqrt{2}$$
No V in denuminator!

$$\frac{\sqrt{10} \cdot 7}{\sqrt{7}} = \frac{\sqrt{70}}{7}$$

$$\frac{\sqrt{7} \cdot \sqrt{7}}{\sqrt{7}} = \frac{\sqrt{70}}{7}$$

$$\frac{\sqrt{3} \cdot 4}{\sqrt[3]{32}} = \frac{\sqrt{3} \cdot \sqrt{3}}{\sqrt[3]{6}} = \frac{\sqrt{3} \cdot \sqrt{3}}{\sqrt{6}} = \frac{\sqrt{3}}{\sqrt{6}} = \frac$$

$$\frac{\sqrt{24}}{\sqrt{25}} = \frac{\sqrt{24} < \frac{2}{12} < \frac{$$

$$\frac{3\sqrt{27} \cdot 9^{\frac{2}{3}}}{3\sqrt{5}} = \frac{3\sqrt{3^{2}}}{3\sqrt{5}} = \frac{3\sqrt{35^{2}}}{3\sqrt{5}} = \frac{3\sqrt{35^{2}}}{3\sqrt{5}} = \frac{3\sqrt{35^{2}}}{3\sqrt{5}} = \frac{3\sqrt{35^{2}}}{5\sqrt{5}} = \frac{3\sqrt{35^{2}}}{5\sqrt{5}} = \frac{3\sqrt{35^{2}}}{5\sqrt{5}} = \frac{\sqrt{3\sqrt{2}}}{5\sqrt{5}} = \frac{\sqrt{3\sqrt{2}}}{\sqrt{3\sqrt{2}}} = \frac{\sqrt{3\sqrt$$

$$\frac{3\sqrt{-121}}{\sqrt{-8}} = \frac{3\sqrt{-121\cdot 44}}{-1\sqrt{21}} = \frac{3\sqrt{-14\cdot 11^3}}{-1\sqrt{21}} = \frac{-11\sqrt{4}}{11\sqrt{11}}$$

$$\frac{\sqrt{-8}}{\sqrt{9}} = \frac{\sqrt{-8}}{3} e^{\frac{-1}{9}(4e^{\frac{2}{3}})} = \frac{\sqrt{-1}\sqrt{2}\cdot 2}{3} = \frac{2\sqrt{12}\cdot 4}{3}$$