

These are alleged answers. For each error herein, you get extra-credit points for being the first to report it by e-mail.

- 1 Here's one possible solution path:

$$\begin{aligned} (2x^4y^{-4/5})^3(8y^2)^{2/3} &= (2^3x^{12}y^{-12/5})(8^{2/3}y^{4/3}) \\ &= (8x^{12}y^{-12/5})(4y^{4/3}) \\ &= 32x^{12}y^{-16/15} = \frac{32x^{12}}{y^{16/15}} \end{aligned}$$

This is problem 1.2: 63.

- 2 Here's one possible solution path:

$$\begin{aligned} \frac{(9st)^{3/2}}{(27s^3t^{-4})^{2/3}} &= \frac{27s^{3/2}t^{3/2}}{9s^2t^{-8/3}} \\ &= \frac{3t^{25/6}}{s^{1/2}} \end{aligned}$$

This is problem 1.2: 69.