

$$* \left(2y^2 - \frac{4}{3} \right) \left(y^2 - \frac{2}{5} \right)$$

$$2y^2(y^2) + 2y^2\left(-\frac{2}{5}\right) - \frac{4}{3}(y^2) - \frac{4}{3}\left(-\frac{2}{5}\right)$$

$$2y^4 - \frac{4}{3}y^2 - \frac{4}{3}y^2 + \frac{8}{15}$$

$$2y^4 - \frac{12}{15}y^2 - \frac{20}{15}y^2 + \frac{8}{15}$$

$$2y^4 - \frac{32}{15}y^2 + \frac{8}{15}$$

FOIL