

multiplying R.E.

$$\frac{4x^2}{3y} \cdot \frac{4x^3y^2}{2x} = \frac{16x^5y^2}{6xy}$$

$$\frac{8x^4y}{3}$$

Dividing Rat. Exp

$$\frac{16x^2}{y^3} \div \frac{2x}{y^4}$$

$$\frac{16x^2}{y^3} \cdot \frac{y^4}{2x} = \frac{16x^2y^4}{2xy^3} = \textcircled{8xy}$$

$$2 \div \left(\frac{1}{2}\right) = 4$$

$$2 \cdot \frac{2}{1}$$

$$\frac{21}{10} \div \frac{9}{10} \cdot \left(\frac{-4}{7}\right)$$

$$\frac{21}{10} \cdot \frac{10}{9} \cdot \frac{-4}{7} = \frac{-840}{630} = \left(\frac{-4}{3}\right)$$

$$\frac{r^4 s}{t} \cdot \frac{t^3}{r^2 s} \div \frac{r s}{t}$$

$$\frac{r^4 s}{t} \cdot \frac{t^3}{r^2 s} \cdot \frac{t}{r s} = \frac{r^4 s t^4}{r^3 s^2 t}$$

$$\left(\frac{r t^3}{s}\right)$$

$$\frac{4x^3}{2yx^4} \div \frac{3x^2}{y} = \frac{xy}{y^3}$$

$$\frac{4x^3}{2yx^4} \cdot \frac{y}{3x^2} \cdot \frac{y^3}{xy}$$

$$\frac{4x^3}{2yx^4} \cdot \left(\frac{3x^2}{y}\right)^{-1} = \frac{4x^3}{2yx^4} \cdot \frac{y}{3x^2}$$

Advanced

6

$$2 \rightarrow 4.5$$

$$4 \rightarrow 4.0$$

$$\frac{3(4.5) + 3(4.0)}{6}$$

$$4.17$$

$$\frac{1-x^2}{3x+4} \div \frac{x^2+x-2}{9x^2+24x+16}$$

$$- \frac{\cancel{(x-4)}(1+x)}{\cancel{(3x+4)}} \cdot \frac{\cancel{(3x+4)}(3x+4)}{(x+2)\cancel{(x-1)}}$$

$$\boxed{- \frac{(1+x)(3x+4)}{x+2}}$$