

8, 9, 10, 6, 4

$$4. \frac{5x^2y^2}{-6x^3y^2}$$

$$\frac{-5}{x} = \frac{-5}{x} = \frac{5}{-x} = -\frac{5}{x}$$

$$6. \frac{48x^3y}{32xy^2} = \frac{3x}{2y}$$

PEMDAS

$$x^2 \cdot x^3 = x^5$$

$$(x^2)^3 = x^6$$

$$8. \left(\frac{2x^2}{y}\right)^4 = \frac{2^4 x^8}{y^4} = \frac{16x^8}{y^4}$$

$$9. \frac{3s}{t^2} \cdot \frac{s^2}{t} = \frac{3s^3}{t^3}$$

$$10. \frac{2u}{v^2} \cdot \frac{3u}{v^2} = \frac{6u^2}{2v^4} = \frac{3u^2}{v^4}$$

HWA 2/8/10

$$4. \frac{30x^2y^3}{-6x^3y^2}$$

$$\frac{(-4x^2y^3)^2}{8x^5y^3} = \frac{16x^4y^6}{8x^5y^3}$$

$$\frac{2y^3}{x}$$

$$\left(\frac{-3x^5y^2}{6xy^5}\right)^3$$

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

$$\frac{-27x^{15}y^6}{216x^3y^{15}}$$

$$216 \div 27 = 8$$

$$\frac{-x^{12}}{8y^9}$$

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$$\frac{(4mn)^2}{x} \cdot \frac{3x^5m^2}{n^2}$$

$$\frac{16m^2n^2}{x} \cdot \frac{3x^5m^2}{n^2}$$

$$\frac{48x^4m^4n^2}{\cancel{x}n^2} = \textcircled{48x^4m^4}$$

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

$$\frac{4x^2}{y^4} \cdot \frac{-y^3}{8x^3} = \frac{-4x^2y^3}{8x^3y^4} = \frac{1}{-2xy}$$

$$\left( \frac{3xy}{x^2} \right)^3 \cdot \left( \frac{2x}{y^5} \right)$$

$$\frac{27x^3y^3}{x^3} \cdot \frac{2x}{y^5} = \frac{54xy^3}{x^3y^5} = \frac{54}{x^2y^2}$$

$$11. \frac{3x^2}{y^2} \cdot \frac{3y}{6x}$$