

Warung !!

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$$1. (-3M^3N)^2 = +9M^6N^2$$

$$\left(-\frac{3}{5}m^2n^4\right)^2 = +\frac{9}{25}m^4n^8$$

$$\left(\frac{R^3L}{-5}\right)^2 = \frac{1R^6L^2}{25}$$

$$\left(\frac{4}{7}w^4p^3\right)^2 = \frac{16}{49}w^8p^6$$

2 a) $(axy + 2x)^2$

$$= (axy)^2 + (2)(axy)(2x)^2$$

$$9x^2y^2 + 18x^2y^2(2x) + 4x^2$$

$$\downarrow + \quad 36x^3y^2 + \quad \downarrow$$

b) $\left(\frac{4}{3}m^2y^3 + \frac{m}{3}x^2n\right)^2$

$$= \left(\frac{4}{3}m^2y^3\right)^2 + (2)\left(\frac{4}{3}m^2y^3\right)\left(\frac{m}{3}x^2n\right) +$$

$$\left(\frac{m}{3}x^2n\right)^2$$

$$\downarrow + \frac{8m^3y^3x^2n}{9} + \frac{m^2x^4n^2}{9}$$

$$c) \left(\frac{2}{5}xy - \frac{3}{4}x^{2n+1} \right)^2$$

$$\left(\frac{2}{5}xy \right)^2 - 2 \left(\frac{2}{5}xy \right) \left(\frac{3}{4}x^{2n+1} \right) + \left(\frac{3}{4}x^{2n+1} \right)^2$$

$$\frac{4}{25}x^2y^2 - \frac{6}{10}x^{2n+2}y + \frac{9}{16}x^{4n+2}$$

$$\downarrow \qquad \qquad \downarrow$$

$$\frac{6}{20}x^{2n+2}y \quad +$$

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$$A) (x^2)(x^2) + (x^2)\left(-\frac{3}{4}\right) + \left(\frac{1}{4}\right)(x^2) + \frac{1}{4}$$

$$x^4 + \left(-\frac{3}{4}x^2\right) + \frac{1}{4}x^2 - \frac{3}{16}$$

$$\frac{1}{2}x^2$$

x Grad 10

$$D) \left(x^5 + \frac{3}{5}\right) \left(x^5 - \frac{1}{10}\right) = x^{10} + \frac{3}{50}$$

$$= (x^5)(x^5) + x^5 \left(\frac{3}{5}\right) + \left(-\frac{1}{10}\right)(x^5) + \left(\frac{3}{5}\right)\left(-\frac{1}{10}\right)$$

$$= x^{10} + \frac{3}{5}x^5 + \frac{1}{10}x^5 = \frac{30+5}{50} \quad \frac{3}{50} \downarrow$$

$$\frac{35}{50} = \frac{7}{10}$$

3 Completa cada expresión con los términos que faltan.

a $(s + 8)(s - 10) = s^2 - 2s - 80$

b $(w - 6)(w - 9) = w^2 - 15w + 54$

c $(x^3 - 8)(3x + 4) = 3x^4 + 4x^3 - 24x - 32$
 $3x^4 + 4x^3 - 24x - 32$

