#1.
$$(x^2 - 2x + 1)(x - 2) = x^3 - 2x^2 + 1x - 2x^2 + 4x - 14$$

= $x^3 - 4x^2 + 11x - 14$ Answer

#2.
$$(y^3 + 4y^2 - 8)(2y - 1) = 2y^4 + 8y^3 - 16y - y^3 - 4y^2 + 8$$

= $2y^4 + 9y^3 - 4y^2 - 16y + 8$ Auswen

#3.
$$\frac{2x^{-2}y}{8xy} = \frac{1}{48} \cdot \frac{x^{-2}}{2} \cdot \frac{1}{x} \cdot \frac{y}{y} = \frac{1}{4} \cdot \frac{1}{2^{2}} \cdot \frac{1}{x} = \frac{1}{4x^{3}}$$

Answer

#4.
$$(-5x^{-2}y)(-2x^{-2}y^2) = (-5) \cdot \frac{1}{2^2} \cdot y \cdot (-2) \cdot \frac{1}{2^2} y^2 = 10 \cdot \frac{1}{2^4} \cdot y^3 = \frac{10y^3}{2^4}$$

Answer

#5.
$$0.000000601 = 6.01 \times 10^{-1}$$
 Assum for 1 diffs to the roger

$$#9. 3y^4 - 9y = 3y(y^3 - 3)$$
 Auswen

#8.
$$9a^2z - 29a^3x^3 = 9a^2x(1-3ax^2)$$
 Answer

#8.
$$\frac{\chi}{4-\chi} - \frac{\psi}{\chi^{2}-16} = -\frac{\chi(\chi+\psi)}{(\chi-\psi)(\chi+\psi)} - \frac{\psi}{\chi^{2}-16} = -\frac{\chi^{2}+\psi\chi+\psi}{(\chi-\psi)(\chi+\psi)}$$

$$-(\chi+\chi)^{2}$$

$$= \frac{-(x+2)^{2}}{(x-4)(x+4)}$$

$$\frac{\pm 10.}{x+1} - \frac{3x}{x^2 + 4x + 4} = \frac{x+2}{(x+2)^2} - \frac{3x}{x^2 + 4x + 4} = \frac{x+2 - 3x}{(x+2)^2}$$

$$= \frac{-2(x-1)}{(x+2)^2}$$
Answer

#11.
$$\frac{4x^{2} - 4y^{2}}{6x^{2}y^{2}} = \frac{3x^{2} + 3xy}{2x^{2}y - 2xy^{2}} = \frac{4(x^{2} - 4y^{2})}{6x^{2}y^{2}} \times \frac{2x^{2}y - 2xy^{2}}{3x^{2} + 3xy}$$

$$= \frac{4(x^{2}y^{2})(x-y)}{3(x^{2}y^{2})(x-y)} \times \frac{2xy(x-y)}{3x(x+y)} = \frac{4(x-y)^{2}}{9x^{2}y}$$
Assurt

#12.
$$\frac{3x^{2} - 10x - 8}{6x^{2} + 13x + 6} = \frac{2x^{2} - 9x + 10}{4x^{2} - 4x - 15} = \frac{3x^{2} - 10x - 8}{6x^{2} + 13x + 6} \times \frac{4x^{2} - 4x - 15}{2x^{2} - 9x + 10}$$

$$\frac{3x^{2} - 10x - 8}{-4 - 12} = (3x + 2)(x - 4)$$

$$\frac{3}{3} \times \frac{2}{3} \times$$

$$4x^{2} - 4x - 15 \qquad (2x+3)(2x-5)$$

$$2 \qquad -5 \qquad -10$$

$$2x^{2} - 9x + 10 \qquad (2x-5)(x-2)$$

$$2 \qquad -5 \qquad -5$$

Part I.

#15 C is a zero of fot;

(=)
$$f(c) = 0$$
.

(=) $C^2 + 3c - 18 = 0$

(=) $(c) + 6(c) + 3c = 0$

$$=\frac{x-5}{x+9}$$