

Dividing Polynomials

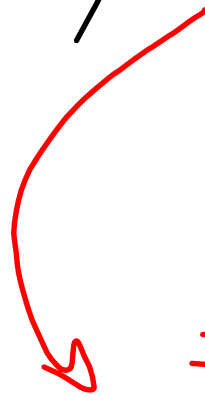
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#2f)

$$\begin{array}{r} 9xy \\ \hline \end{array}$$

main thing

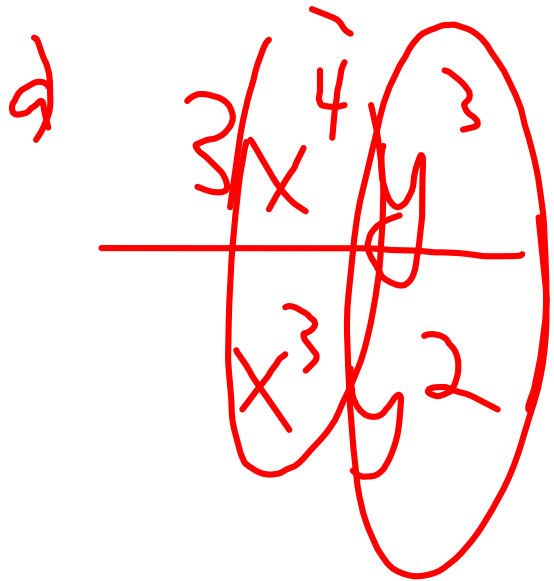
$$-3x$$



$$= -3(1)y$$

$$= -3y$$

Ex. 1



$$= 3x^1y^1$$

$$= 3xy$$

b)

$$\frac{a^5b^6}{3a^3b^3}$$

$$= \frac{(1a^2b^3)}{3}$$

$$= \frac{a^2b^3}{3}$$

dividing polynomials worksheet

1 a) $\frac{6x}{2} = 3x$ b) $\frac{14x^2}{2} = 7x^2$

c) $\frac{12x^2y}{4} = 3x^2y$ d) $\frac{6y^3}{(-3)} = -2y^3$

dividing polynomials worksheet

$$4a) \quad \frac{8x^3 + 4x^3 + 16x}{4x} \quad \text{like terms}$$

$$\frac{\text{unlike} \quad 4x}{= 12x^3 + 16x}$$

$$= \frac{12x^3}{4x} + \frac{16x}{4x}$$

$$= 3x^2 + 4$$

4b) mono \div mono

$$\frac{12x^3y^2z^4 + 9xyz^2 - 15x^2y^3z^4}{-3xyz^2}$$

$$= \frac{12x^3y^2z^4}{-3xyz^2} + \frac{9xyz^2}{-3xyz^2} - \frac{15x^2y^3z^4}{-3xyz^2}$$

$$= -4x^2yz^2 + (-3)(1)(1)(1) - (-5)xy^2z^2$$

$$= -4x^2yz^2 - 3 + 5xy^2z^2$$

like terms



Same variable
↓
Same exponent

OR

Number terms
↓
Constant