

Monomials

Monomial - a number, a variable, or the product of a number and variables.

100

x^5

$42xy^5z^2$

These are not monomials:

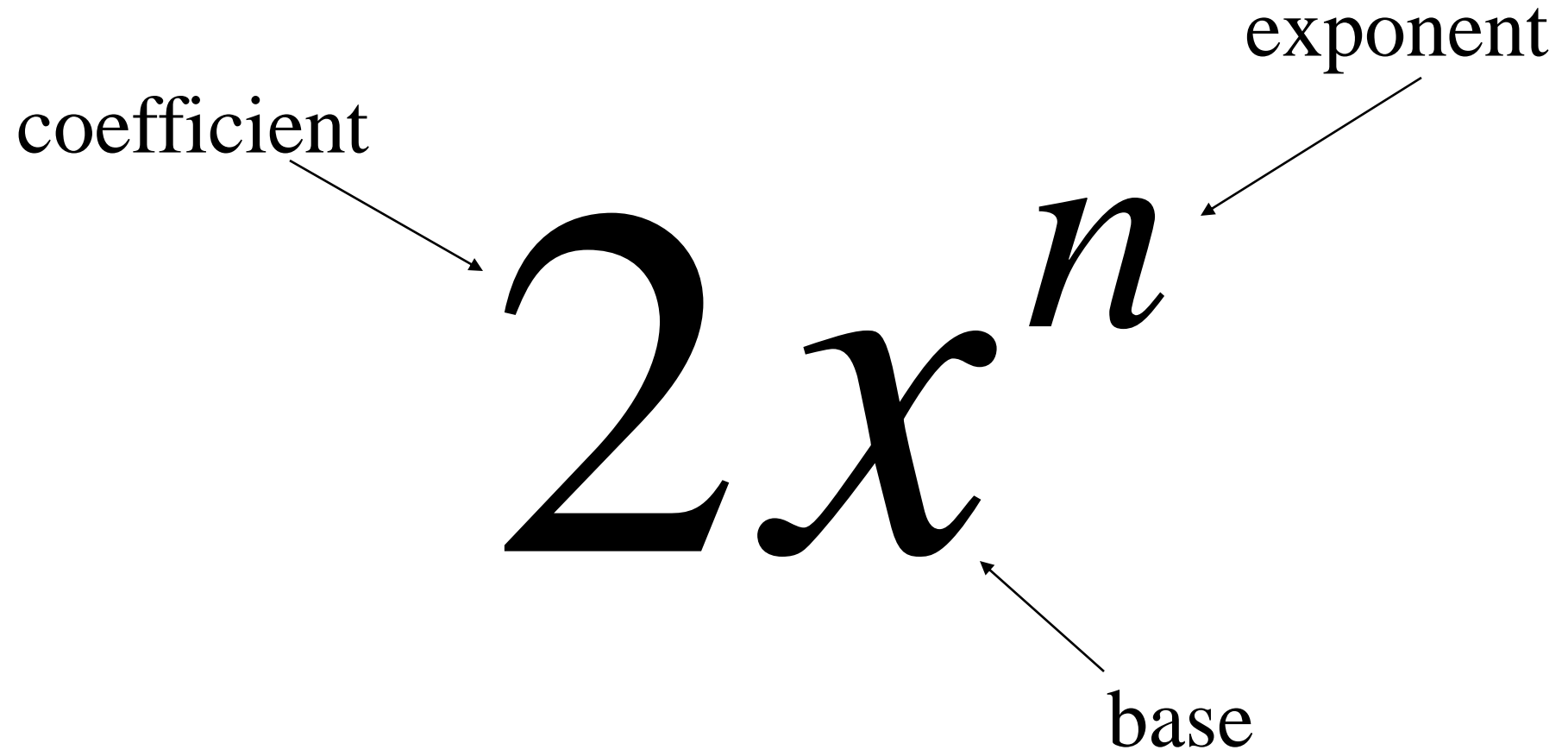
$$a + b$$

$$5 - 7d$$

$$\frac{a}{b}$$

$$\frac{5}{a^2}$$

Parts of a monomial



$$a^3 \cdot a^4 =$$

$$b^2 \cdot b^3 =$$

$$c^{15} \cdot c^{21} =$$

Product of powers

$$a^m \cdot a^n = a^{m+n}$$

$$3a^6 \cdot a^8 =$$

$$(8x^4) (3x) =$$

$$(2a^4) (2a^3b^2) (-3ab^3) =$$

$$(a^4)^3 =$$

$$(b^5)^2 =$$

$$(c^8)^9 =$$

Power of a Power

$$(a^m)^n = a^{mn}$$

Power of a Product

$$(ab)^m = a^m b^m$$

Power of a Monomial

$$(a^m b^n)^p = a^{mp} b^{np}$$

$$(6b^4y)^2 =$$

$$[(-y)^2]^4 =$$

$$(x^4y^3z^6)^2 [2x^2y^2]^4$$