$$\underbrace{xyz}_{a}$$

$$\underbrace{xyz}_{a}$$

ź

$$A \to B$$

$$A \xleftarrow{a+b} B$$

$$B \xrightarrow[c-d]{a-b} C$$

$$\iint x$$

$$\iiint x$$

$$A \Rightarrow B$$

$$A \Longrightarrow B$$

$$x = a + b. (1)$$

$$x = a + b, (2)$$

$$y = c + d + e + f. (3)$$

$$x = a + b, (4)$$

$$y = c + d + e + f, (5)$$

$$x=a+b+c+d+e+f \\ +g+h+i+j+k. \\ +l+m+n. \quad (6)$$

$$x = a + b$$

$$= c + d + e.$$
(7)

$$x = a + b, (8a)$$

$$y = c + d + e + f. (8b)$$

$$x = 1,$$
  $y = 2,$  initialize  $z = 3,$   $w = 4,$ 

some more text, and

$$a = 5,$$
  $b = 5.$ 

$$x = a + b, (9)$$

$$y = c + d + e + f. (10)$$

$$y = d$$

$$y(x) = cx + d$$

$$y_{12} = bx^{2} + cx$$

$$z = 1$$

$$z = x + 1$$

$$z = x^{2} + x + 1$$

$$A \to B$$

$$|x| = \begin{cases} x & x \ge 0 \\ -x & x < 0 \end{cases}$$

$$\lim_{x\to\infty}$$

$$\sum_{n=1}^{\infty} a_n$$

$$\prod_{n=1}^{\infty} a_n$$

$$\prod_{n=1}^{\infty} a_n$$

 $R^*$ 

 $\epsilon$ 

 $\lambda$ 

dog A loving animal that likes to sleep on the furniture.

cat Aloof creature that can warm your feet on a winter's night

horse Large animal, gives great rides. Eats a lot, luckily doesn't sleep on the furniture.

Name	Oblateness	Diameter
Mercury	0	3,100
Venus	0	7,700
Earth	1/297	7,927
Mars	1/192	4,200
Jupiter	1/15	88,700
Saturn	1/9.5	$75,\!100$
Uranus	1/14	32,100
Neptune	1/40	27,700
Pluto	?	3,600

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$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$f'(x_0) = \lim_{x \to x_0} \frac{f(x) - f(x_0)}{x - x_0} \tag{11}$$

$$(a+b)(a+b) = a^{2} + ab + ba + b^{2}$$

$$= a^{2} + 2ab + b^{2}$$

$$(a+b)(a-b) = a^{2} - ab + ba - b^{2}$$

$$= a^{2} - b^{2}$$

$$(a+b)^{3} = a^{3} + 3a^{2}b + 3ab^{2} + b^{3}$$
(12)
(13)

$$(a+b)(a-b) = a^2 - ab + ba - b^2$$
  
=  $a^2 - b^2$  (13)

$$(a+b)^3 = a^3 + 3a^2b + 3ab^2 + b^3 (14)$$

 $A\bowtie B$ 

 $A \ltimes B$ 

 $A\rtimes B$ 

 $A \in B$ 

 $A \not\in B$