

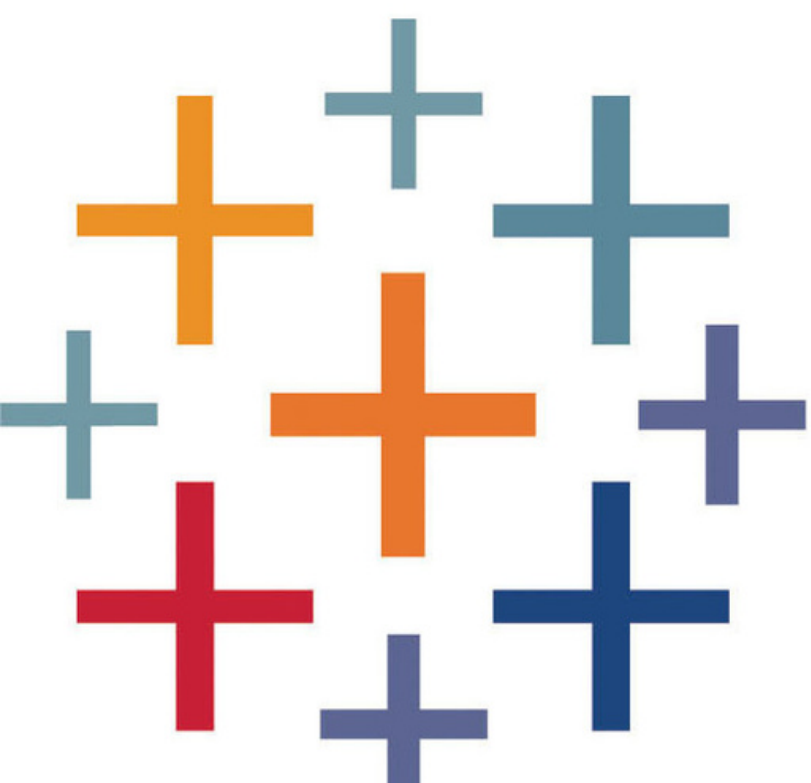


FUNCTIONS IN TABLEAU

INSTRUCTOR: FIZZA FAWAD

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+ databledu®

- FUNCTIONS ARE USED TO PERFORM VARIOUS OPERATIONS ON YOUR DATA, SUCH AS CALCULATIONS, AGGREGATIONS, TRANSFORMATIONS, AND FORMATTING.



TYPES OF FUNCTIONS

Basic functions

ABS
CEILING
FLOOR
MAX
MIN
DIV

String functions

CONTAINS
ENDSWITH
FIND
FINDNTH
LEN
LOWER
UPPER
MAX
MIN
SPLIT
TRIM

Date functions

DATEADD
DATENAME
DAY
MONTH
YEAR
ISDATE
MAKEDATE
MAKETIME
MAKEDATETIME
NOW

Aggregate functions

AVG
MAX
MEDIAN
MIN
SUM

Logical functions

IF
AND
ELSE
ISDATE
ISNULL,
IFNOT
OR

$$2x + 3x - 90 = 0$$

$$(2x + 15)(x - 6) = 0$$

$$\int_0^a \frac{dx}{\sqrt{a^2 - x^2}} = \frac{\pi}{2}$$

$$\int_0^a \sqrt{a^2 - x^2} dx = \frac{\pi a^2}{4}$$

$$\lim_{x \rightarrow a} [f(x) \pm g(x)] = l \pm m$$

$$\lim_{x \rightarrow a} [f(x) \cdot g(x)] = l \cdot m$$

$$\lim_{x \rightarrow a} \frac{1}{f(x)} = \frac{1}{l}$$

$$\bar{X}_1 = \frac{1+3+3+6+8+9}{6} = 5$$

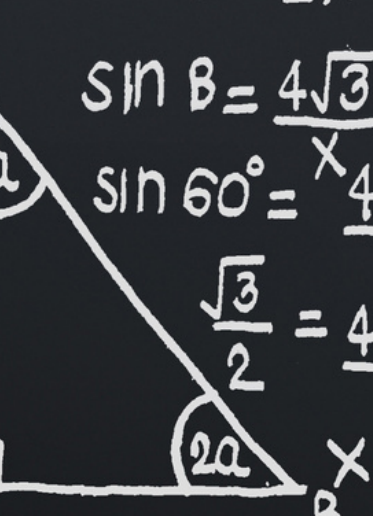
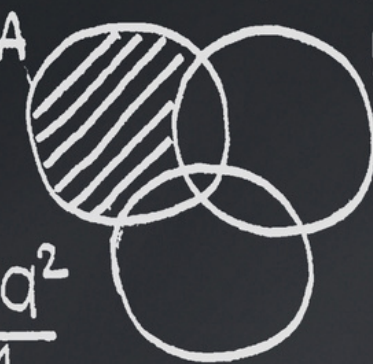
$$\bar{X}_2 = \frac{2+4+4+8+12}{6} = 30$$

$$a^2 + b^2 = c^2$$

$$a = \sqrt{c^2 - b^2}$$

$$b = \sqrt{c^2 - a^2}$$

$$c = \sqrt{a^2 + b^2}$$



$$\log_a(mn) = \log_a m + \log_a n$$

$$n(A \cup B \cup C) = n(A) + n(B) + n(C) - n(A \cap B) - n(A \cap C) - n(B \cap C) + n(A \cap B \cap C)$$

$$n(B \cap C) = 22$$

$$n(B) = 68$$

$$n(C) = 84$$

$$n(B \cup C) = n(B) + n(C) - n(B \cap C)$$

$$f(x) \leq 5$$

$$x^2 - 4x + 5 = 5$$

$$x^2 - 4x \leq 0$$

$$\sqrt{a^3} \sqrt{a} = \sqrt{a \cdot a^3}$$

$$\sqrt{a^3 \cdot a} = \sqrt{a^4}$$

$$\sqrt{a^4} = a^2$$

$$126 = 2 \times 63$$

$$2x + y = 20$$

$$\sin B = \frac{4\sqrt{3}}{8}$$

$$\sin 60^\circ = \frac{4\sqrt{3}}{8}$$

$$\frac{\sqrt{3}}{2} = \frac{4\sqrt{3}}{8}$$

$$\frac{1}{2} = \frac{y}{8} \rightarrow y = 4$$

$$x\sqrt{3} = 8\sqrt{3}$$

$$x + y = 8 + 4 = 12$$



$$3(3^x + 3^{-x}) = 10$$

$$y = ax$$

$$0 < a < 1$$

$$\frac{\Delta v}{\Delta t} = \frac{v - u}{t}$$

$$= \frac{v^2 - u^2}{2s}$$

$$f = \{(x, y) \in \mathbb{R}^+ \times \mathbb{R} \mid x = a^y; a > 0, a \neq 1\}$$

$$n = 360^\circ / \theta - 1$$

$$z_1 = a \begin{vmatrix} D_1 & B_1 \\ D_2 & B_2 \end{vmatrix} - b \begin{vmatrix} D_1 & A_1 \\ D_2 & A_2 \end{vmatrix}$$

$$4 \frac{10}{15} - 4 \frac{2}{5} + 5 \frac{1}{3} = \frac{(15 \times 4) + 10}{15}$$

$$\frac{g_1}{g_2} = \left(\frac{R_2}{R_1} \right)^2 = \left(\frac{R_1 + h}{R_1} \right)^2$$

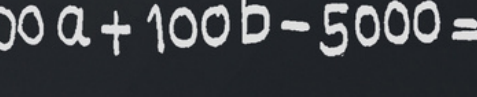
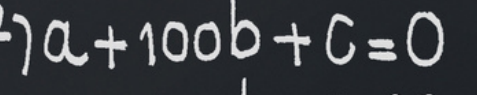
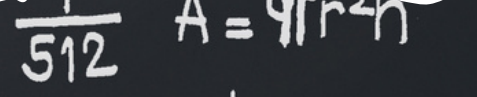
$$f = \frac{R}{2}$$

$$U = \frac{vf}{v - f}$$

$$\frac{1}{p} = \frac{1}{u} + \frac{1}{v}$$

$$v = \frac{uf}{u - f}$$

$$O: 3y = 16 + y + \frac{x}{2}$$



$$\lambda = \frac{2\ell}{n}$$

$$v = \sqrt{\frac{T}{\mu}}$$

$$\frac{\sin \theta_1}{v_1} = \frac{\lambda_1}{\lambda_2} = \frac{n_2}{n_1}$$

