

a的1/8为9, 求a的值a=_____

$$14^2 = \quad 18^2 = \quad 45^2 = \quad 84 \times 86 = \quad \frac{6}{7} =$$

$$\frac{1}{6} = \quad \frac{2}{3} = \quad \frac{6}{7} = \quad \frac{5}{8} = \quad \frac{6}{8} = \quad e = \lim \quad = \quad \pi =$$

$$2^4 = \quad 2^{10} = \quad 14 = \text{---}(2) \quad 139 = 0x \text{---}$$

educt derivatives : $f(x) = \sqrt{x}, \quad g(x) = \frac{1}{x}, \quad h(x) = x^a, a \in N^+$

find partial derivatives, gradient : $f(x) = -6x^2 + 8xy + \frac{2}{7}y^2 - 3x - 3$

find derivatives : $g(x) = \sqrt{8x^3} \quad h(x) = \frac{8x^3}{2x^7}$

$$(\sqrt{-5x^2 - 3x + 4})' \quad (3^{2x^2+2x-3})' \quad [\ln(3x^2 + e^{7x})]'$$

$$\left(\frac{1}{9x^2 + 4x + 2}\right)' \quad (e^{\sqrt{2x^3}})' \quad (e^{\frac{2x^4}{2x^9}})' \quad (\sqrt{\log_2 x + 9 \lg x - \ln x})'$$

There are 1 red balls ,9 blue balls in A box; There are 4 red balls ,6 blue balls in B box; If you take a red ball at random ,what is the probability you take it from box A?

given 9,3 find means :

$$A_{-\infty} = \quad A_{-1} = \quad A_0 = \quad A_1 = \quad A_2 = \quad A_{+\infty} =$$

first 1 miles speed is 9 m/s; second 3 miles speed is 4 m/s;

find the mean speed :

画图，化为函数，指出梯度，倾斜角，截距，法向量，原点到直线距离,点(6,8)到直线距离

$$-7x + 7y = 4$$

draw plane in cube, and draw the contours on both 3d and 2d images.

$$L(x, y) = -3x + y$$

$$\lg 5 - \lg 3 = \quad 8 \ln 2 = \quad 3^8 \times 3^{-2} \quad \frac{8^3}{89} =$$

$$(2^8)^{\frac{1}{4}} = \quad \log_{\frac{1}{125}} 5 = \quad \left(\frac{1}{9}\right)^{-\frac{1}{2}} =$$

sort in ascending order : $x \quad x^2 \quad \ln x \quad 2^x \quad x \lg x \quad x! \quad \sqrt{x}$

orig\mirror	x axis	y axis	original point	y = x	grap
(-1,-1)					
$y=5x-2$					
$y = x^5$					
$y = \log_2 x$					

$$\log_{27} 3^6 = \quad 4^{\log_4 5} = \quad \log_3 6 = \frac{1}{\quad} \quad \log_7 9 = \frac{\ln}{\ln}$$

$$(3^6)^{\frac{1}{2}} = \quad \log_{\frac{1}{64}} 4 = \quad \left(\frac{1}{125}\right)^{-\frac{1}{3}} =$$

$$\text{use lg table : } \sqrt{2806112^9} =$$

$$\text{use lg graph : } 2672500 \times 274632 =$$

$$+ \quad = 1 \quad \tan \alpha = \quad \sin \beta = \quad \cos \gamma =$$

$$\triangle ABC : C = 90^\circ : \cos B = \frac{5}{13}, a = 40, \text{ the other sides length?}$$

$$(img) \sin \theta = \quad \cos \theta = \quad \tan \theta = \quad \csc \theta = \quad \sec \theta = \quad \cot \theta =$$

Degrees	0°	30°	45°	60°	90°	120°	135°	150°	180°	1.000°	
Radians											1.000
cos										—	—
tan										—	—
sin										—	—

Pythagorean triple: (3, ,)(5, ,)(8, ,)

given $P_1(-8, -6, 8), P_2(9, -7, 1)$, find distances :

$$d_{Euclidean} = \quad d_{Manhattan} = \quad d_{Chebyshev} =$$

given $P_1(4, 4, 9), P_2(8, -6, -7)$, find Minkowski distances :

$$d_{(-\infty)} = \quad d_{(-1)} = \quad d_{(0)} = \quad d_{(1)} = \quad d_{(2)} = \quad d_{(+\infty)} =$$

given $P_1(a, c, c, c, e), P_2(b, b, e, a, e)$, find distances :

$$d_{Hamming} = \quad d_{Jaccard} =$$

given $Y = (a, b, b, c, c, a, b, c, b, c)$:

$$Gene(Y) =$$

find norms : $P_1(-3, -1, -1), P_2(-7, -5, 8)$, $dP = P1 - P2 =$

$$\|dP\|_{-\infty} = \quad \|dP\|_0 = \quad \|dP\|_1 = \quad \|dP\|_2 = \quad \|dP\|_{+\infty} =$$

scaling data:

X	Decimal	Min-Max	Z-score	MaxAbs	RobustScale	Median(X)=	
2						IQR(X)=	
4							
5						Mean(X)=	
6						standard deviation(x)=	
2							

Actual Y	A	B	A	B	B	B	B	A	B	B
Predicted Y	A	B	A	B	A	A	B	A	A	B

Confused Matrix Actual Actual
 Matrix A B Precision Recall F1 Score Support

Predicted A			A				
Predicted B			B				
Accuracy Rate	_____		avg/total				

Simplify $Y = \sum (m_0 m_2 m_5) =$ _____

Karnaugh Map A\BC 00 01 11 10

to

Binary

0				
1				

$$\begin{bmatrix} 5 & 6 \\ 6 & 9 \end{bmatrix} \times \begin{bmatrix} 8 & -3 \\ -2 & -6 \end{bmatrix} =$$

find solution by Substitution, Elimination, Lines Graph, Argument Matrix, Gaussian

Elimination, Companion Matrix, Cramers Rule, : $\begin{cases} 2a - 1b = 23 \\ -1a - 3b = 6 \end{cases}$