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Building
Haansi

$$\tan 90 = \frac{\sin 90}{\cos 90} = \frac{1}{0} = ND$$

Concept: पूरा नहीं है।

$$\tan 90 = \frac{\sin 90}{\cos 90} = \frac{1}{0} \sim \infty$$

$$=$$

$$\sin\theta = \frac{\text{Perp}}{\text{Hypo}} = 1$$

$$\sin 90 = \frac{P}{H} = \frac{AB}{AC} = \frac{A}{A} = 0.999 = 1$$

$$\theta = 90^\circ$$

$$AC \simeq AB$$

$$AC = AB$$

$$BC = 0$$

$$\cos 90 = \frac{B}{H} = \frac{0^+}{H} = 0^+$$

$$C \longrightarrow B$$

$$\tan 90 = \frac{\sin 90}{\cos 90} = \frac{1}{0^+} = \text{huge}$$

Not known

$\cos 90 \to 0$ - undefined

ND

$\frac{1}{0^+}$

∞

(1)

Speed ↓

Distance

0 time t

(2) Slope decreases

(3) curve flattened

Distance

(2)

Speed ↑

0 time t

slope ↑

curve — steeper

6th Grade → 10th Grade

$1^0 = 1$

$2^0 = 1$

$0^0 =$ Indeterminate

$\frac{1}{0} =$ ND

$\frac{0}{0} =$ Indeterminate

$\frac{0}{2} = 0$

$\tan 90$

$\sin\theta$

$\cos\theta$

ND

∞ = undefined = undefined

$\frac{1}{0} = \infty$

undefined

ND

unable to define

∞ = undefined ↔ one and same

$$1^0 = 1^{1-1} = \frac{1^1}{1^1} = 1$$

$$1^{2-2} = \frac{1^2}{1^2} = 1$$

$$1^{n-n} = \frac{1^n}{1^n} = 1$$

$$\frac{a^b}{a^c} = a^{b-c}$$

$$2^0 =$$

$$1000^0 = 1000^{1-1} = \frac{1000^1}{1000^1} = 1$$

$$0^0 = \{$$

$\frac{1}{0} = \infty$ (ND) undefined

$\frac{1}{0} = \infty$ × ND

$\frac{1}{0} = ND$

understand

↳ Huge value

↳ Not known at Present

↳ Have a specific value

Division

$\frac{6}{2} = 3$

$\frac{18}{9} = 2$

$\frac{0}{0}$ = Undefined → $0, 1, -1, -2,$

∞

Rule – Division

Indeterminate

$\frac{0}{0}$ = 0^{1-1} = $\frac{0^1}{0^1}$ = $\frac{0}{0}$ = 1

$\frac{\delta^2}{\delta^2} = \delta^{2-2}$

$\frac{\delta^n}{\delta^n} = \delta^{n-n}$

Indeterminate

$1^0 = 1^{1-1}$

$= \frac{1}{1} = 1$