SETH M.R. JAIPURIA SCHOOLS BANARAS PARAO CAMPUS

SUBJECT – MATHEMATICS

CLASS –X (TRIGONOMETRY)

$\tan\theta = \frac{\dots\dots}{\cos\theta}$ and $\dots\dots = \frac{\cos\theta}{\sin\theta}$

$\text{cosec}\theta = \frac{\dots\dots\dots\dots}{\text{Opposite side}}$

$\cos\theta = \frac{1}{\dots\dots}$ & $\sec\theta = \frac{\dots\dots}{\dots\dots}$

$\sec\theta = \frac{\dots\dots\dots\dots}{\dots\dots\dots\dots}$

$cosec^2\theta = 1 + \dots\dots\dots$

$\sin\theta = \frac{1}{\dots\dots\dots}$ & $\dots\dots\dots = \frac{1}{\sin\theta}$

$\cos\theta = \frac{\dots\dots\dots\dots}{\text{Hypotenuse}}$

$\sin\theta = \frac{\text{Opposite side}}{\dots\dots\dots\dots}$

$\dots\dots\dots\dots + cos^2\theta = 1$

$sec^2\theta = 1 + \dots\dots\dots$

$\cot\theta = \frac{\text{Adjacent Side}}{\dots\dots\dots\dots}$

$\tan\theta = \frac{\text{Opposite side}}{\dots\dots\dots\dots}$

Sin …. $= \frac{1}{2}$

cos $30^0 = \frac{\dots\dots}{2}$

tan …. $= \sqrt{3}$

sec ….. = 2

cot ….. $= \sqrt{3}$

Coses ……=2

….. $60^0 = \frac{2}{\sqrt{3}}$

……. $30^0 = 2$

…… $90^0 = 1$

….. $90^0 = 0$

sin …… $= \frac{1}{\sqrt{2}}$

sec …... $= \sqrt{2}$

…… $0^0 = \infty$

tan ……= 0

tan ….. = ∞

sin ….. = 0

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INTRO TO TRIGONOMETRY *practice*

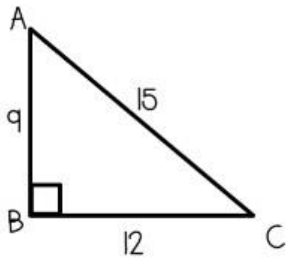
Directions: Find the trig. ratios for the right triangles. Make sure to reduce all fractions!

1.

sin(A)=

cos(A)=

tan(A)=

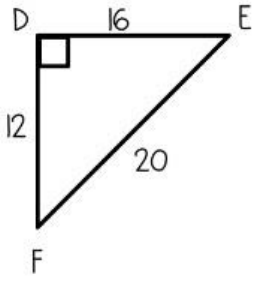


2.

sin(F)=

cos(F)=

tan(F)=

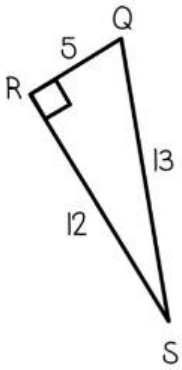


3.

sin(Q)=

cos(Q)=

tan(Q)=

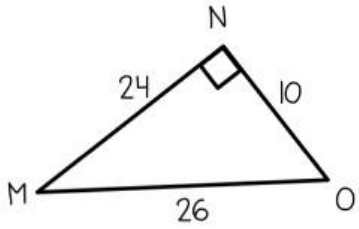


4.

sin(M)=

cos(M)=

tan(M)=

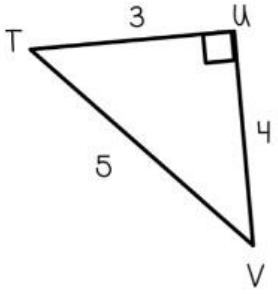


5.

sin(V)= sin(T)=

cos(V)= cos(T)=

tan(V)= tan(T)=

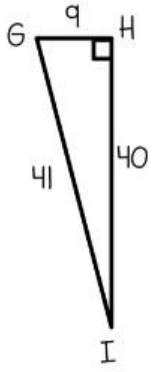


6.

sin(G)= sin(I)=

cos(G)= cos(I)=

tan(G)= tan(I)=

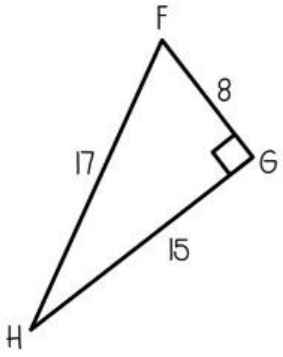


7.

sin(F)= sin(H)=

cos(F)= cos(H)=

tan(F)= tan(H)=



8.

sin(R)= sin(T)=

cos(R)= cos(T)=

tan(R)= tan(T)=