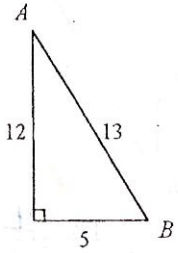
Sine Ratios #1 **Name**_____ **Date**_____

For each right triangle, give the ratio for sin $A°$ and sin $B°$. Leave your answers as fractions.

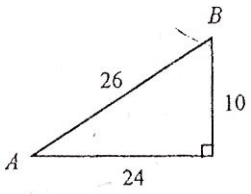
1)



sin $A°$ = 5/13

sin $B°$ = 12/13

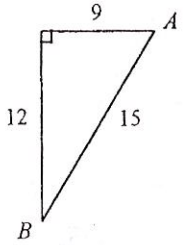
2)



sin $A°$ = 5/13

sin $B°$ = 12/13

3)

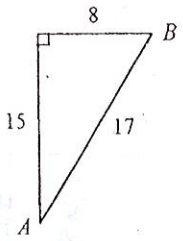


sin $A°$ = 4/5

sin $B°$ = 3/5

$\sin\theta = \frac{opp}{hyp}$ "SOH"

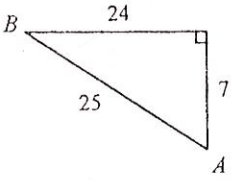
4)



sin $A°$ = 8/17

sin $B°$ = 15/17

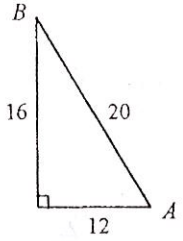
5)



sin $A°$ = 24/25

sin $B°$ = 7/25

6)



sin $A°$ = 4/5

sin $B°$ = 3/5

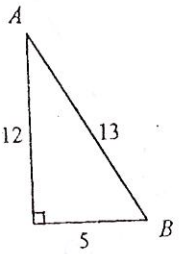
KEY #2

Cosine Ratios Name_____ Date_____

For each right triangle, give the ratio for cos $A°$ and cos $B°$. Leave your answers as fractions.

CAH

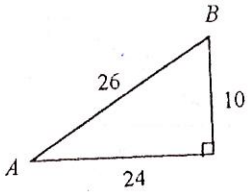
1)



cos $A°$ = 12/13

cos $B°$ = 5/13

2)

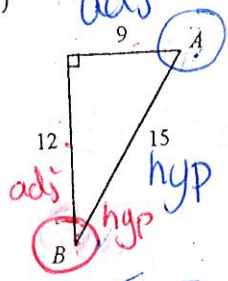


cos $A°$ = 12/13

cos $B°$ = 5/13

3)

adj

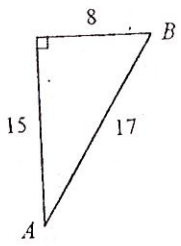


cosθ = adj/hyp

cos $A°$ = 3/5 = 9/15

cos $B°$ = 4/5 = 12/15

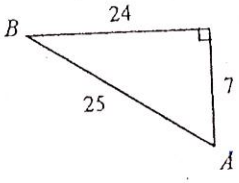
4)



cos $A°$ = 15/17

cos $B°$ = 8/17

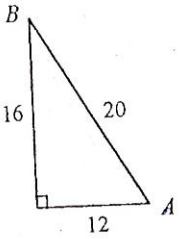
5)



cos $A°$ = 7/25

cos $B°$ = 24/25

6)



cos $A°$ = 12/20 = 3/5

cos $B°$ = 16/20 = 4/5

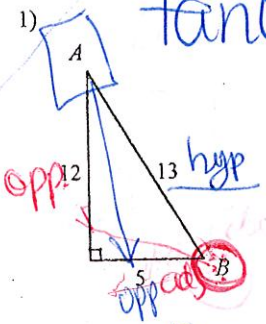
Cosine #2

Tangent Ratios #3 **Name** KEY **Date**

For each right triangle, give the ratio for tan $A°$ and tan $B°$. Leave your answers as fractions.

tan θ = opp / adj "tOa"

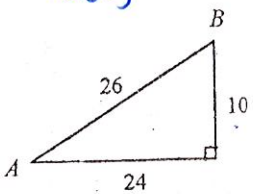
1)



tan $A°$ = 5/12

tan $B°$ = 12/5

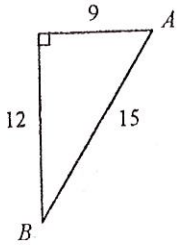
2)



tan $A°$ = 10/24 = 5/12

tan $B°$ = 24/10 = 12/5

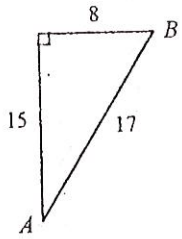
3)



tan $A°$ = 12/9 = 4/3

tan $B°$ = 9/12 = 3/4

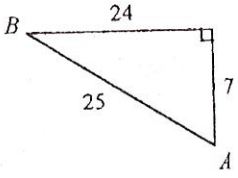
4)



tan $A°$ = 8/15

tan $B°$ = 15/8

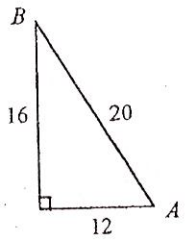
5)



tan $A°$ = 24/7

tan $B°$ = 7/24

6)



tan $A°$ = 16/12 = 4/3

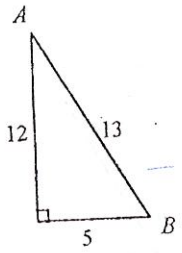
tan $B°$ = 12/16 = 3/4

Mixed #4

Trigonometric Ratios Name KEY Date_____

For each right triangle, give the ratio for sin $A°$, cos $A°$, and tan $A°$. Leave your answers as fractions.

1)

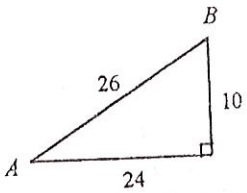


sin $A°$ = $\frac{5}{13}$

cos $A°$ = $\frac{12}{13}$

tan $A°$ = $\frac{5}{12}$

2)

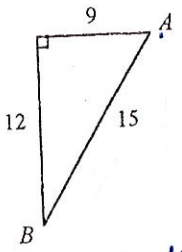


sin $A°$ = $\frac{10}{26} = \frac{5}{13}$

cos $A°$ = $\frac{24}{26} = \frac{12}{13}$

tan $A°$ = $\frac{10}{24} = \frac{5}{12}$

3)

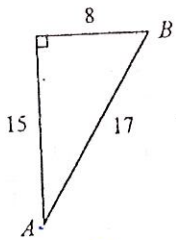


sin $A°$ = $\frac{12}{15} = \frac{4}{5}$

cos $A°$ = $\frac{9}{15} = \frac{3}{5}$

tan $A°$ = $\frac{12}{9} = \frac{4}{3}$

4)

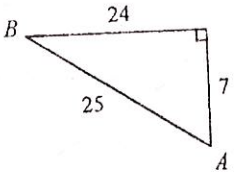


sin $A°$ = $\frac{8}{17}$

cos $A°$ = $\frac{15}{17}$

tan $A°$ = $\frac{8}{15}$

5)

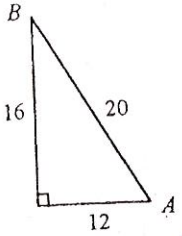


sin $A°$ = $\frac{24}{25}$

cos $A°$ = $\frac{7}{25}$

tan $A°$ = $\frac{24}{7}$

6)



sin $A°$ = $\frac{16}{20} = \frac{4}{5}$

cos $A°$ = $\frac{12}{20} = \frac{3}{5}$

tan $A°$ = $\frac{16}{12} = \frac{4}{3}$