Name **Schlansky** $S\frac{H}{H}$ $C\frac{A}{H}$ $T\frac{O}{A}$

$\sin\theta = \frac{O}{H}$ $\cos\theta = \frac{A}{H}$ $\tan\theta = \frac{O}{A}$

Mr. Schlansky

Date _____

Geometry

Basic Trigonometric Ratios

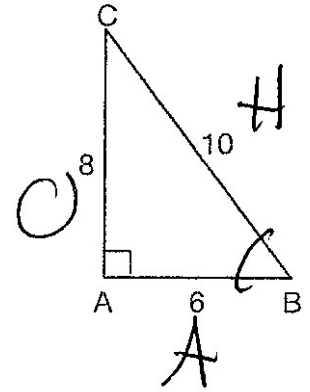1. Find the following trigonometric ratios for the given triangle:

a) $\sin B$

$\frac{O}{H}$ $\frac{8}{10}$

b) $\cos B$

$\frac{A}{H}$ $\frac{6}{10}$

c) $\tan B$

$\frac{O}{A}$ $\frac{8}{6}$

d) $\csc B$

$\frac{10}{8}$

e) $\sec B$

$\frac{10}{6}$

f) $\cot B$

$\frac{6}{8}$

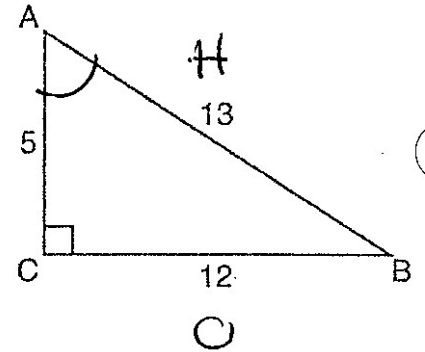2. Find the following trigonometric ratios for the given triangle:

a) $\sin A$

$\frac{O}{H}$ $\frac{12}{13}$

b) $\cos A$

$\frac{A}{H}$ $\frac{5}{13}$

c) $\tan A$

$\frac{O}{A}$ $\frac{12}{5}$

d) $\csc A$

$\frac{13}{12}$

e) $\sec A$

$\frac{13}{5}$

f) $\cot A$

$\frac{5}{12}$

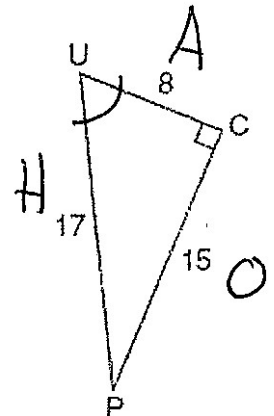3. Find the following trigonometric ratios for the given triangle:

a) $\sin U$

$\frac{O}{H}$ $\frac{15}{17}$

b) $\cos U$

$\frac{A}{H}$ $\frac{8}{17}$

c) $\tan U$

$\frac{O}{A}$ $\frac{15}{8}$

d) $\csc U$

$\frac{17}{15}$

e) $\sec U$

$\frac{17}{8}$

f) $\cot U$

$\frac{8}{15}$