

# TRIG FUNCTIONS

TEXT: 2.1

LAST NAME	FIRST NAME	DATE
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1 (6 points). Without using a calculator, find

(a)  $\tan(135^\circ)$

(g)  $\cos(0^\circ)$

(b)  $\csc(-60^\circ)$

(h)  $\csc(270^\circ)$

(c)  $\sin(-150^\circ)$

(i)  $\sin(-210^\circ)$

(d)  $\cos(315^\circ)$

(j)  $\cos(-45^\circ)$

(e)  $\cot(90^\circ)$

(k)  $\tan(240^\circ)$

(f)  $\sec(-180^\circ)$

(l)  $\cot(2025^\circ)$

- 2 (6 points). Given that  $\beta$  is an angle in the 1st quadrant, and  $\sec(\beta) = 17/8$ ,
- (a) make a rough sketch of the angle  $\beta$  in the standard position,
  - (b) find and label the coordinates of some point  $P(x, y)$  on the terminal side of the angle,
  - (c) find the values of the other five trig functions.

Show any work you deem appropriate above, only state answers below:

(a)  $\sin(\beta) =$

(c)  $\csc(\beta) =$

(e)  $\cot(\beta) =$

(b)  $\cos(\beta) =$

(d)  $\tan(\beta) =$