

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 β is an angle in the 1st quadrant, and $\sec(\beta) = 17/8$,

- (a) make a rough sketch of the angle β 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) $\tan(\beta) =$