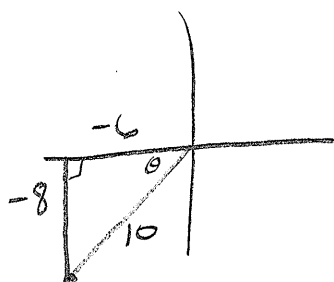# FST Trig 2.3 Warm up

1) Find the exact value of each of the six trigonometric functions for the angle θ with the terminal side containing P (-6, -8).

$\sin\theta = \dfrac{-8}{10} = \dfrac{-4}{5}$ $\csc\theta = \dfrac{10}{-8} = \dfrac{5}{-4}$

$\cos\theta = \dfrac{-6}{10} = \dfrac{-3}{5}$ $\sec\theta = \dfrac{10}{-6} = \dfrac{5}{3}$

$\tan\theta = \dfrac{-8}{-6} = \dfrac{4}{3}$ $\cot\theta = \dfrac{-6}{-8} = \dfrac{3}{4}$

$\sqrt{(-8)^2 + (-6)^2}$

$= 10$

2) Tell me what calculator MODE you would use to evaluate these problems. Explain why you choose that mode. Then evaluate.

a) $\cot 192°47'22'' = \dfrac{1}{\tan 192°47'22''} = 4.405$

Degree → angle given in DMS

b) $\csc(-2.33) = \dfrac{1}{\sin(-2.33)} = -1.379$

Radian → angle given in rad