Warm -up

1. Find 125

2. Solve $x^2 = 4$

3. explain the difference

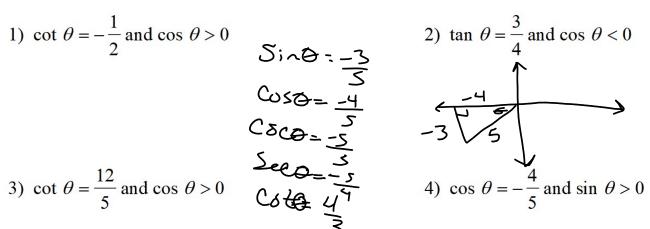
Find all 6 trigonometric functions given the following

c. $\tan \Theta = -15/8$, in quadrant IV

d. csc $\Theta = 4$, in quadrant II

1)
$$\cot \theta = -\frac{1}{2}$$
 and $\cos \theta > 0$

2)
$$\tan \theta = \frac{3}{4} \text{ and } \cos \theta < 0$$



4)
$$\cos \theta = -\frac{4}{5}$$
 and $\sin \theta > 0$

1. Sin 0 = 13 when 0 < 0 < 360.

In order to get one answer we must restrict the domain.

arcsin
$$\theta$$
 $-\frac{\pi}{2} \leq \theta \leq \frac{\pi}{2}$ arccos θ $0 \leq \theta \leq \pi$ arctan θ $-\frac{\pi}{2} \leq \theta \leq \frac{\pi}{2}$ arccot θ $0 \leq \theta \leq \pi$

arccsc and arcsec have the same domain as the reciprocal

we will understand this more when we graph.

Simplify

1)
$$\sec^{-1}(-\sqrt{2})$$

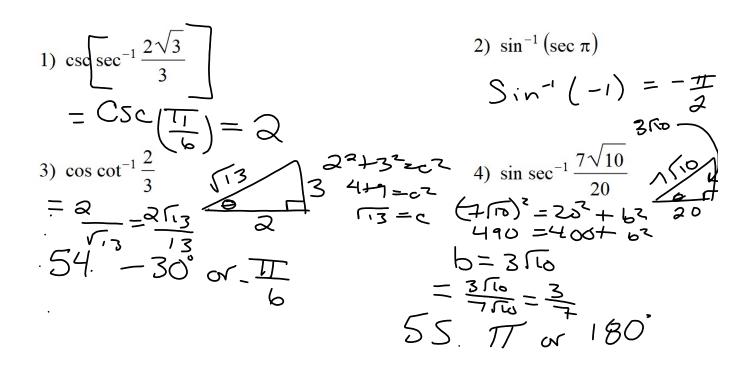
3)
$$\sin^{-1} 1$$

2) $\cot^{-1} 0$

undermed

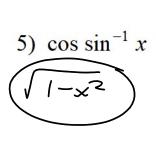
47. 45° or TI

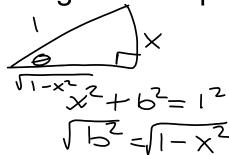
Composition of functions



6) $sec tan^{-1} x$

Write as an algebraic expression





7) $\sec \cos^{-1} x$

Using your calculator