

Use identities (**not right triangles**) to solve the following.

1. If $\tan x = 2$, find $\cot x$.
2. If $\csc x = -\frac{5}{2}$, find $\sin x$.
3. If $\sin x = \frac{2}{3}$, find $\cos x$.
4. If $\cos x = \frac{1}{5}$, find $\csc x$.
5. If $\tan x = 3$, find $\sec x$.
6. If $\cot x = \frac{7}{2}$, find $\csc x$.
7. If $\cos x = \frac{1}{4}$, find $\tan x$.
8. If $\sin x = \frac{7}{10}$, find $\cot x$.
9. If $\tan x = \frac{7}{2}$, find $\sin x$.
10. If $\cot x = -5$ and $\sin x = -\frac{\sqrt{26}}{26}$, find the remaining trig function values.

Step 1)

$$10. \cos t - \sin t$$

$$11. \frac{\tan t}{\sin t}$$

$$12. \sin^2 t - \cos^2 t$$

$$13. \cos t - \cos t - \sin t - \cos t$$

$$14. 1 - \cos^2 t$$

$$15. \cos^2 t - 1$$

$$16. \frac{\sin^2 t}{1 - \sin^2 t}$$

$$17. \frac{\sin^2 t + \cos^2 t}{\cos^2 t}$$

$$18. \frac{1 + \tan^2 t}{\tan^2 t}$$

$$19. \frac{\cos^2 t - 1}{\cos^2 t}$$

$$20. \cos t \tan t = \sin t \cos t$$