SM3H 8.1 Fundamental Identities Odd Answers

Must show all work when simplifying! These are final answers only!

1. even
3. odd
5. csc x
7. $\cos^2\alpha$
9. 2sinα
11. cot α = 2, sin α = $\frac{\sqrt{5}}{5}$, csc α = $\sqrt{5}$, cos α = $\frac{2\sqrt{5}}{5}$, sec α = $\frac{\sqrt{5}}{2}$
13. sec α = $-\frac{5\sqrt{3}}{3}$, sin α = $-\frac{\sqrt{22}}{5}$, csc α = $\frac{-5\sqrt{22}}{22}$, tan α = $\frac{\sqrt{66}}{3}$, cot α = $\frac{\sqrt{66}}{22}$
15. cos x
17. $\cos^2 x$
19. $-\tan^2 x$
21. csc x
23. 325°
25. $\frac{3\pi}{2}$ ft²
27. $2(3y + 4)(6x - k)$
29. $(3x + 4)(2x + 5)$
31. $6(u^2 - 10)(u^2 + 9)$
33. $(2x + 5)(4x^2 - 10x + 25)$