

Simplify. <u>fan (-0)</u> sec X - tan's Sel D cscx tan X 11-9 SIN D Cos D SIn²X L OR SECX 5 Cos B (zos D <u>- - SNO</u> 3 () 214, X+ (2) - Sin D Sin x = 1- cos

$$\frac{4an^{2}x - \frac{5ec^{2}x}{csc^{2}x}}{\frac{1}{sin^{2}x} - \frac{cos^{2}x}{\frac{1}{sin^{2}x}}} = \frac{\frac{cos^{2}x}{sin^{2}x}}{\frac{1}{sin^{2}x}} = \frac{\frac{cos^{2}x}{csc^{2}x}}{\frac{1}{sin^{2}x}} = \frac{\frac{cos^{2}x + sin^{2}x}{sin^{2}x}}{\frac{cos^{2}x}{\frac{1}{sin^{2}x}}} = \frac{\frac{cos^{2}x + sin^{2}x}{sin^{2}x}}{\frac{cos^{2}x + sin^{2}x}{\frac{1}{sin^{2}x}}} = \frac{\frac{cos^{2}x + sin^{2}x}{sin^{2}x}}{\frac{cos^{2}x + sin^{2}x}{\frac{1}{sin^{2}x}}} = \frac{\frac{cos^{2}x + sin^{2}x}{sin^{2}x}}{\frac{cos^{2}x + sin^{2}x}{\frac{1}{sin^{2}x}}} = \frac{\frac{cos^{2}x + t}{sin^{2}x}}{\frac{cos^{2}x + sin^{2}x}{\frac{1}{sin^{2}x}}} = \frac{\frac{cos^{2}x + t}{sin^{2}x}}{\frac{cos^{2}x + sin^{2}x}{\frac{cos^{2}x + sin^{2}x}{\frac{1}{sin^{2}x}}} = \frac{1}{sin^{2}x} = \frac{1}{sin^{2}x}$$