## TRIG SUBSTITUTION

$$\int_{X^{2}\sqrt{X^{2}}49}^{2} dx \qquad X = 2 \tan \theta$$

$$\int_{X^{2}\sqrt{X^{2}}49}^{2} dx \qquad dx = 2 \sec^{2}\theta d\theta$$

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$$\int \frac{1}{\sec^2 \theta} d\theta = \int \cos^2 \theta d\theta = \int \frac{1}{2} (1+\cos 2\theta) d\theta$$

$$\int \tan^2 \theta d\theta = \int (\sec^2 \theta - 1) d\theta \longrightarrow 1 + \tan^2 \theta = \sin^2 \theta$$

$$= \tan \theta - \theta + C$$

$$Drawa inv tria func.$$







