



$$\int \frac{dx}{a + b \cos x} = \int \frac{\sec^2 \frac{x}{2} dx}{1 + \frac{a-b}{a+b} \tan^2 \frac{x}{2}} = \int \frac{2 d(\tan \frac{x}{2})}{1 + \frac{a-b}{a+b} \tan^2 \frac{x}{2}} = \int \frac{(a+b) \cos \frac{x}{2} + (a-b) \sin \frac{x}{2}}{(a+b) \cos^2 \frac{x}{2} + (a-b) \sin^2 \frac{x}{2}} dx$$

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