Calcular a integral definida $I = \int_0^1 \dfrac{dx}{\sqrt{3x+1}}$

Seja $u = 3x + 1$, $du = 3dx$.

$$I = \frac{1}{3} \int_1^4 \frac{du}{\sqrt{u}} = \frac{1}{3} \cdot 2\sqrt{u}\Big|_1^4 = \frac{4}{3} - \frac{2}{3} = \boxed{\frac{2}{3}}$$

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Sugestões, comunicar erros: "a.vandre.g@gmail.com".