Let, $I = \int \dfrac{1 + x^{1/4}}{1 + x^{1/2}} dx$ and, $x = z^4$

So, $dx = 4z^3 dz$

Now,

$$I = \int \dfrac{(1+z)4z^3 dz}{1+z^2} = 4\int \dfrac{z^4 + z^3}{1+z^2} dz$$

$$= 4\int \dfrac{z^2(z^2+1) - (z^2+1) + z(z^2+1) - z - 1}{1+z^2} dz$$

$$= 4\left\{\int (z^2 - 1 + z)dz - \int \dfrac{zdz}{z^2+1} - \int \dfrac{dz}{z^2+1}\right\}$$

$$= 4\left\{\dfrac{z^3}{3} - z + \dfrac{z^2}{2} - \dfrac{1}{2}\ln(z^2+1) - \tan^{-1} z\right\} + c$$

$$= 4\left\{\dfrac{x^{3/4}}{3} - x^{1/4} + \dfrac{x^{1/2}}{2} - \dfrac{1}{2}\ln(x^{1/2}+1)\right.$$

$$\left. - \tan^{-1} x^{1/4}\right\} + c \qquad [\, z = x^{(1/4)} \,]$$

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