

Solve

$$\ln(x^2) = \frac{1}{4}$$

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$$e^{\ln(x^2)} = e^{\frac{1}{4}}$$

$$x^2 = e^{\frac{1}{4}}$$

$$\sqrt{x^2} = \sqrt{e^{\frac{1}{4}}}$$

$$x = \pm \sqrt{e^{\frac{1}{4}}} = \pm 1.1331$$