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The result is obvious, think of the factor λ as a change of scale, i.e. time measured in hours rather than seconds, length measured in centimeters rather than inches etc. A formal proof is as follows.

$$P(T \leq t)$$

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$$P(T \leq t) = P\left(\frac{T_1}{\lambda} \leq t\right)$$

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$$P(T \leq t) = P\left(\frac{T_1}{\lambda} \leq t\right) = P(T_1 \leq \lambda t)$$

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Now inserting in the expression given by (2) page 286 shows that

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Now inserting in the expression given by (2) page 286 shows that T is Gamma (r, λ) distributed.