Question a) The survival function $G(t)$

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$$P(T \leq b)$$

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$$P(T \leq b) = 1$$

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$$P(T \leq b) = 1 - P(T > b)$$

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$$P(T \leq b) = 1 - P(T > b) = 1 - G(b)$$

Question b)

$$P(a \leq T \leq b)$$

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$$P(T \leq b) = 1 - P(T > b) = 1 - G(b)$$

Question b)

$$P(a \leq T \leq b) = P(T \leq b) - P(T < a)$$

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($P(T < a) = P(T \leq a)$ for a continuous distribution).