(c)
$$f(1 > t) = 0.25$$

 $e^{-t} = 0.25 \implies ln(e^{-t}) = ln(0.25) \implies t = -ln(0.25)$
(5) $\chi_{n} = 0.25 \implies ln(e^{-t}) = ln(0.25) \implies t = -ln(0.25)$

(6)
$$\times NN(s, (i))$$

(a) $P(X co) = PNORM(0, 5, 10)$
 $P(X > 10) = 1 - PNORM(10, 5, 10)$
 $P(X > 10) = 1 - PNORM(10, 5, 10)$
 $P(X > 10) = 1 - PNORM(15, 5, 10)$
 $P(X > 10) = 1 - PNORM(15, 5, 10)$
 $P(X > 10) = PNORM(15, 5, 10) - PNORM(-20, 5, 10)$
 $P(-5 \le X \le 30) = PNORM(30, 5, 10) - PNORM(-5, 5, 10)$

(b) $P(X > X) = 0, 05 \Leftrightarrow X = qNORM(0, 25, 5, 10)$

(c) $P(X > X) = 0, 05 \Leftrightarrow X = qNORM(0, 25, 5, 10)$

(d) $P(X < X) = 0, 23 \Leftrightarrow X = qNORM(0, 25, 5, 10)$

(e) $P(X = 1) = P(1 \le T < 2) = F(2) - F(1) = e^{-2} - e^{-4}$
 $P(X = 1) = P(T > 2) = e^{-4}$
 $P(X = 2) = P(T > 2) = e^{-4}$

(for $Y = 10 = 2$
 $P(Y = 10) = 2$

Y = 2 X-1

(8) $Q_{1} = P(\chi > x) = 1 - F(x) = 1 - \left(\frac{1}{2} + \frac{1}{4} \operatorname{and}_{m}(x)\right) \frac{1}{2}$ $\perp \operatorname{ATEPPN}(x) = Q_{1} + \operatorname{ATCFAN}(x) = \mathcal{T} \cdot Q_{1} + \operatorname{ATCFAN}(x) = \mathcal{T} \cdot Q_{2} + \operatorname{ATCFAN}(x) = \mathcal{T} \cdot Q_{1} + \operatorname{ATCFAN}(x) = \mathcal{T} \cdot Q_{2} + \operatorname{ATCFAN}(x) = \mathcal{T} \cdot Q_{2} + \operatorname{ATCFAN}(x)$ $\chi = \operatorname{ADN}(\mathcal{T} \cdot Q_{2} + x)$