$$= \left(1 - e^{\lambda \lambda 10} \right) - 1 = e^{\lambda \times 5}$$

$$E(x) = 6$$

b) $= P(0 \leq z \leq 1)$

$= P(z \leq 1) - P(z \leq 0)$

$$\leq \underline{P(z \leq 1) - .5}$$

$$\boxed{.8913 - .5}$$

c) $P(-2.50 \leq z \leq 2.50)$

$P(-c \leq z \leq c)$

$P(P z \leq c) - P(P z \leq -c)$

$P(2 P z \leq 0) - 1$

$= 2 \cdot P(z \leq 2.50) - 1 = \boxed{5}$

$z = .9938 - 1$

d) $P(Z \geq 1.5)$

$= 1 - P(Z \leq 1.50)$

q) $P(Z \leq 0)$
$= .9838$

b) $P(0 \leq Z \leq C)$
$= .241$

a) $P(X \leq 1.5)$

$P\left(\dfrac{X-M}{\sigma} \leq \dfrac{1.5-M}{\sigma}\right)$

$\underline{P(Z \leq 0)}$

b) $P(X > 0.25)$

$P\left(Z > \dfrac{.25 - M}{\sigma}\right)$

c) $P\left(Z \leq \dfrac{d - .3}{.06}\right) = .95 = 1.64$