(6)
$$X(t) = 2t + 3w(t)$$

 $Y(t) = 2t + w(t)$

Companing with
$$x(t) = xt + \delta w(t)$$
 we get
$$x = x + \delta w(t) = x + \delta w(t)$$

$$x = x + \delta w(t) = x + \delta w(t)$$

$$x = x + \delta w(t) = x + \delta w(t)$$

$$x = x +$$

$$E[e^{-ST}] = e^{\frac{2\pi}{\sigma_2}(\mu - \sqrt{2S\sigma^2 + \mu^2})}$$

$$E[T] = \frac{1}{ds} E[e^{-ST}]$$

$$E[T^2] = \left(\frac{d^2}{ds^2} E[e^{-s\tau}]\right)_{s=0}$$

$$=\frac{\chi^2}{\chi^2}+\frac{\sigma^2}{\chi^3}\chi$$

$$\operatorname{var}(T) = \frac{\chi^2}{\chi^2} + \frac{\sigma^2 \chi}{\chi^3} - \frac{\chi^2}{\chi^2} = \frac{\sigma^2 \chi}{\chi^3}$$

FEET]_X =
$$\frac{\chi}{\chi}$$
 $= \frac{\chi}{\chi}$ $= \frac{\chi}{\chi}$ $= \frac{\chi}{\chi}$

Because for reaching any barrier x

Enpected time is some in both cases
but & offers more certainty on reaching
the barrier in in time close to the
expected value because of less

Volatility. Therefore I would

Prefer Y.