X
Ω
$X \in$
$f(\omega)$
ω
Ω
?
$f(\omega)$
?
X
$F(X)$
x
X
x
?

$F(x) = X < x$

(1)

?
$F(X)$
$f(x)$
X
$f(x)$
$F'(x)$
?
$f(x)$
(X)
?

$$(X) = \sum_{i=1}^{n} x_i \cdot p_i$$

(2)

?

$$(X) = \int_{-\infty}^{\infty} x f(x) dx$$

(3)

(X)
X
$(X) =$
$(X-$
$X)^2$
$(X) =$
$(X-$
$a)^2$
$a =$
X
X

$$(X) = \sum_{i=1}^{n} (x_i - X)^2 \cdot p_i$$

(4)

X

$$(X) = \int_{-\infty}^{\infty} (x - X)^2 f(x) dx$$

(5)

σ_X
$\sigma_X =$
$\sqrt{X}$
X
X
X
μ_2
X
X
?
$F(s)$
$f(t)$
$f(t)$
$F(s)$
$s =$
$0 +$
$i\omega$

$$F(s) = f(t) = \int_{0}^{\infty} e^{-st} f(t) dt$$

(6)

?
$f(t) :^+$
$\cup 0 \rightarrow$
$[0, +\infty)$
$|f(t)| <$
$Ke^{\omega t}$
$K >$
$0, \omega 0$
$\forall \alpha, \beta \in$