$\frac{1}{1} \times 3 \times \frac{500}{30} = 300$   $\frac{1}{1} \times 3 \times \frac{500}{30} = 300$ 

4PXP 11PX + XPL =

1(+ - syme) = 12 Mes 42

MAD = 10 Mes 92 + 10 29 Mes)

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[A) = [(1-5)dws) E(IA)] = E[I(0)] = 0 Un [I(A)] = E[I(A)]<sup>2</sup>] - E[I(A)]<sup>2</sup> = E[(5; (4-5)dws)]

$$= E[\int_{0}^{3} (4-5)^{2} ds]$$

$$= \int_{0}^{4} [A-5]^{2} ds$$

$$= \int_{0}^{4} (4-5)^{2} ds$$

$$= \left[-\frac{1}{3}(4-5)^{2}\right]_{0}^{3}$$

$$= \frac{1}{3}t^{2}$$

1) 
$$QX(t) = Qt + 2\sqrt{X(t)} = (1 - \frac{1}{2}x^2\sqrt{X(t)}) = (1 - \frac{1}{2}x^2\sqrt{X(t)}) = (1 - \frac{1}{2}x^2\sqrt{X(t)}) = 0$$

$$\int_0^{\frac{1}{2\sqrt{\chi(\varsigma)}}} d\chi(\varsigma) = W(1)$$

$$3) (3x4) = \frac{3}{12}x(4)^{\frac{1}{2}}(14 + x(4)^{\frac{1}{2}}(144)$$

$$\int_{0}^{4} \chi(s)^{\frac{2}{3}} d\chi(s) = W(4)$$

$$X(1) = (\frac{1}{3}W(1) + X(0)^{\frac{1}{3}})$$

3. 
$$dx(t) = \frac{1}{2}a_{1}x(t)^{2m-1}dt + a_{1}x(t)^{m}dW(t)$$

= 
$$(\frac{1}{2}\alpha^2 n X(t)^{2n-1} - \frac{1}{2}\alpha Xt^{n} \cdot \alpha m Xt^{n-1})ct$$

$$\frac{1}{2} \int_{0}^{4} x(s)^{-m} dx(s) = M(4)$$

$$= \frac{1}{2} \int_{0}^{4} x(s)^{-m} dx(s) = M(4)$$

5, St. W(s)<sup>2</sup>, J W(s) - \frac{1}{2} W(t)<sup>3</sup>

- \langle (w(t)^2) + \la

= W(A)D(W(A)) + W(A)JW(A) + JW(A)JW(A)) = (2 W(A)JW(A) + JW(A)JW(A))

= WA) (2WA) JWA) + WAZ WA) + (2WA) JWA) + WAZ WA)

= 2 w(x) d w(x) + w(x) d w(x) + 2 w(x) d w(x) + w(x) d w(x)

- 3W(X) JW(X) + 3W(X) X

= 3 ( W(X) 2 W(X) + W(X WX)

W(+) o d w(x) = w(+) d w(x) + faw(+) d w(x)

= mf)2dm(x)+ = (2mf)dm(x)ndm(x)m(x)

(KNUCKOW + (K)WLJ(RW =

 $d(wd)^3) = 3w(4)^2 \cdot dw(4)$ St 2(W(ST) = 3) + W(S) - 2W(S) W(+) = 3 / W(5) · dw(5)

1 ws/odws) = { W(1)3

$$f(4, x) = f(e^{x})$$

$$f_{x} = 24e^{x}, f_{x} = x^{2}e^{x}, f_{xx} = x^{2}e^{x}$$
 $f_{xx} = 4^{2}e^{x}$ 

$$f_{x} = 0$$
  $f_{x} = 2xe^{x^{2}}$   $f_{xx} = 2e^{x^{2}} + 4x^{2}e^{x^{2}}$ 

 $q(6_{nct_{3}}) = (1+)^{n(t_{3})} 6_{n(t_{3})} qt + 5^{n(t_{3})} 6_{n(t_{3})} qt$   $= 5^{n(t_{3})} 6_{n(t_{3})} qt + 1^{2}(56_{n(t_{3})} + 4^{n(t_{3})} 6_{n(t_{3})} qt$   $q(6_{n(t_{3})_{5}}) = 4^{4}q_{3} + 1^{2}(9^{n(t_{3})} + 1^{2}(1^{2} + 4^{n(t_{3})} + 1^{2})^{n(t_{3})} qn(t_{3})$