Solvatione Compitino del 31/05/2013 - Film B

Es #1

a) 
$$M_{K}(i) = E\left[X(t)\right] = A \operatorname{red}\left(\frac{t+t_{0}}{2T}\right) \frac{t}{2T} \operatorname{red}\left(\frac{t_{0}}{2T}\right) dl_{0}$$

. A red  $\left(\frac{t_{0}}{2T}\right) \operatorname{vert}\left(\frac{t_{0}+t_{0}}{2T}\right) df_{0}$ 

. A red  $\left(\frac{t_{0}}{2T}\right) \operatorname{vert}\left(\frac{t_{0}+t_{0}}{2T}\right) df_{0}$ 

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. A red  $\left(\frac{t_{0}}{2T}\right) \operatorname{vert}\left(\frac{t_{0}}{2T}\right) \operatorname{vert}\left(\frac{t_{0}}{2T}\right) df_{0}$ 

. A red  $\left(\frac{t_{0}}{2T}\right) \operatorname{vert}\left(\frac{t_{0}}{2T}\right) \operatorname{vert}\left(\frac{t_{0}}{2T}\right) df_{0}$ 

. A red  $\left(\frac{t_{0}}{2T}\right) \operatorname{vert}\left(\frac{t_{0}}{2T}\right) df_{0}$ 

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Es #2

a) E<sub>5</sub> . E[x<sup>2</sup>] E<sub>7</sub> = 31 . 37 . 33 T

E[x<sup>3</sup>] = 
$$\frac{1}{4}(-z)^{2}$$
 .  $\frac{2}{3}(3)^{2}$  . 1.  $\frac{27}{7}$  = 31

p(1): 25inc(2b) + 5inc( $\frac{2}{7}(b-\frac{7}{2}))$  + 7inc( $\frac{2}{7}(b-\frac{7}{2})$  + 7inc( $\frac{2}{7}(b-\frac{7}{2}))$  + 7inc( $\frac{2}{7}(b-\frac{7}{2})$  + 7inc( $\frac{2}{7$ 

$$M_{x} = E\left[x\right] = \frac{1}{4}(-2) = \frac{3}{4}(3) = -\frac{2}{4} + \frac{9}{4} = \frac{7}{4}$$

$$C_{x} = \frac{7}{4} = \frac{7}{4} = \frac{7}{4}$$

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d) 
$$H(t) = P(t) H_{n}(t) = P(t)$$
 $h(t) = p(t)$ 
 $h(nt) = 2 \sin c (2n) + \sin c (2n-1) + \sin c (2n+1)$ 
 $= 2 \cos 3$ 
 $= 2 \cos 3$ 
 $= 2 \cos 3$ 
 $= 4 \cos 4$ 
 $= 6 \cos 4$ 

b) 
$$P_{n_{m_{0}}} = P_{n_{m_{0}}} = P_{n_{m_{$$