Muren - 1.1.

(1)
$$f_1(x) = e^x$$
, $f_2(x) = 1$, $f_3(x) = x+1$, $f_{1/2}(x) = x-e^x$
 $a_1e^x + a_2 + a_3(x+1) + a_1(x-e^x) = 0$
 $e^x(a_1 - a_1) + x(a_2 + a_1) + (a_2 + a_3) = 0$
 $f_1 - a_1 = 0$
 $f_2 - a_3 = 0$
 $f_3 - a_4 = 0$
 $f_4(x) = f_3(x) + f_4(x) = 0 = 7$ be repu nune tike jaborana

(2) $f_1(x) = f_2(x) + f_3(x) + f_4(x) = 0 = 7$ be repu nune tike jaborana

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 $f_4(x) = f_4(x) + f_$

b,=1, b=x, b3=x2=> 3b3-2b2+2b1=> koopgunarti (2,-2,3)

 $b_1 = x^2$, $b_2 = x - 1$, $b_3 = 1$ $3b_1 - 2b_2 + 4b_3 = > koopgunard (3, -2, 4)$

8.) & Sazuce x2, x-1, 1

$$\|Y\|_{L^{2}} = \sqrt{\|Y\|_{L^{2}}^{2} + \|2\|^{2}} = 6 - \text{ebenneyaba nopna}$$

$$\|Y\|_{L^{2}} \|Y\|_{L^{2}} \|Y\|_{$$

 $\delta.) \quad x = (7, -4, 0, 1) :$ y = (-3, 1, 11, 2)

(x,y) = 7.(-3) + (-4).1 + 0.11 + 1.2 = -23

Aunan - 1.2.

(1) a.) X = (0, -3, 6)

(2) × = (4,2,4)

y=(12,3,4)

y=(-4,7,9)

 $(x, y) = 0.(-4) + (-3) \cdot 7 + 6.9 = 33$

11x11, = 141+121+141=10- man x7TTENCRAR nopua