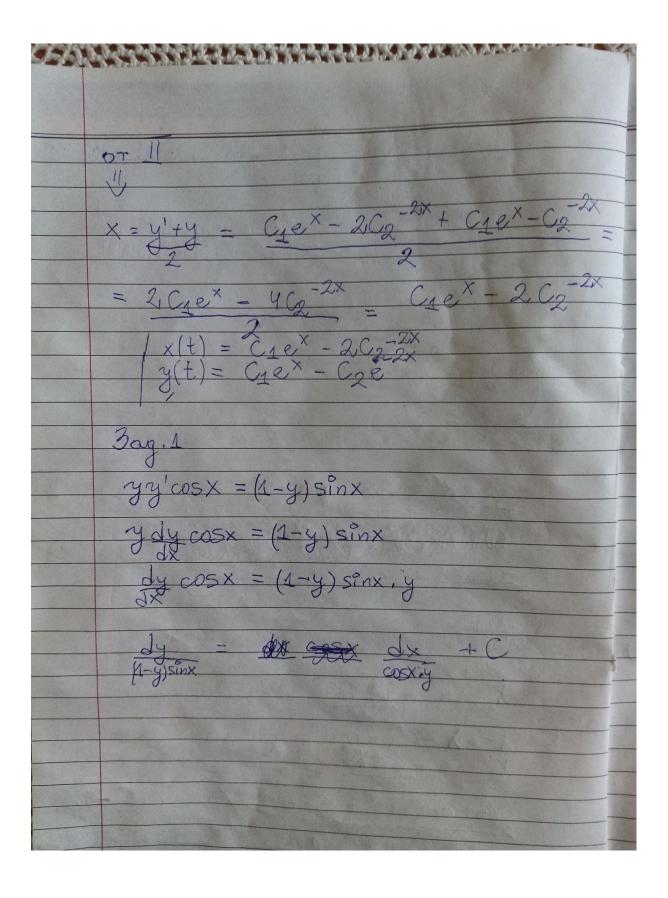
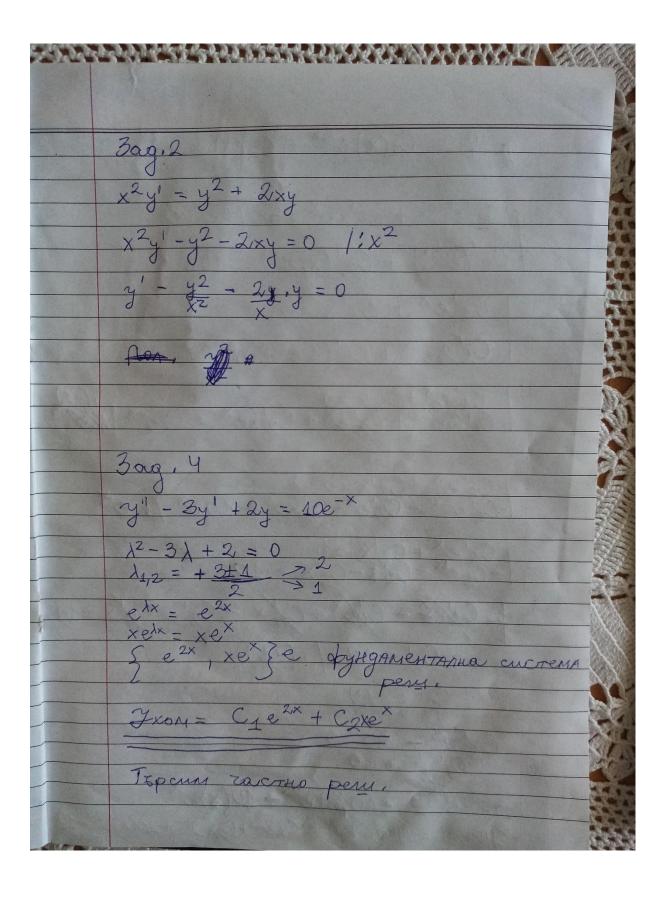
Модели на реални процеси -Контролна работа

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Marin no Mogenu ka peantus EMUN PAROPOR Megapole
JoH: 2008262013 3ag. 5 x'=x+y
y'=2x-y > y = x' -x => y' = x" -x = 2x - yx' -2x = 0 $1 + \sqrt{3}$ 3 1 = 1





7 7 = C1(x) e2x + C2(x), x, exx Cy'e2x + C2xex = 0 /iex C1 (e2x) + C2 (x,ex) = 10e-x C1 ex + C2 X = 0 Ci 2e2x + C2 (1ex + xiex) = 10e-x C1'ex+C2'x=0 C1'2e2x+C2'ex+C2'xex=10e-x 1/2 | C1 ex + C2 x = 0 |-C1 ex - C2 ex - C2 xex = 10ex /; ex - C1 ex + C2 x = 0 - C1 ex - C2 x - C2 x = 10 - C2 = 10 / (-1) Co! = -10 Ci + 10 = 0 => n = 010 (x) e2x + 10(x)xex

yHEXOM. = yxom. + n = C1e2x + C2xex + 10(x)e2x-10
(x)xex

y=xy'+y'-y'2 -ype HA Kneps 1) xg'by(-0)2 (100) g'=p(x) $y' = p + p' - p^2, p'$ Ø= Ø + p'-p2, p' $0 = p'(1 - \frac{1}{2}, \frac{1}{2p})$