12 apriarin 15 jaganne 6 XX = K3 - Sin /2 - Pag paxogund Xx = x3 Sin /e - pag packogumes X,= K2 sin3 /2 - exogume lim sint = lin t => & 1/2 x 3>1 Sk² sin³/_{k²} exogumo Ombem: p=3-kannenound pEZ, npm coropor Xx ELP Bapuaren 15 3aganue 8

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Bapuaren 15 Baganue 8
                             a) x(+) = \frac{6t}{t^{2}+3}, y(+) = \frac{6}{t^{2}+3}, (t-4,2]
                                Pe (x(t), y(t)) = max y(t) x(t) = max 6 - 6t + max 6-6t + 273 = max 6-6t
                                   c ynemon C[-4:2]
                        (4(-1)=3)=> (Pc(x(+),y(+))=3)
    Onloen: Pc (x(+), y(t))=3

√(x(+)=t, y(t) 1/2 (0;1)

\begin{array}{ll}
& \mathcal{L}^{2}(0,t)\left(\chi(t),y(t)\right) = \int_{0}^{t}\left(t-\frac{1}{3\sqrt{t}}\right)^{2}dt = \int_{0}^{t}\left(
 Onlean: 37 = 2 2/15
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XK= (KJK sin /2) ~ K2 - sin / K2 Bapuaren 15 Bagarere 10 x(t)=9-16 y(t)=62+46-2 V=2 a) $PE(X(t), y(t)) = \max_{t \in [t, t]} |y(t) - x(t)| = \max_{t \in [t, t]} |(t^2 + 4t - 2)| = \max_{t \in [t, t]} |\frac{-t^3 - 6t^2 + 3t + 6}{t + 2}|$ C yrenou C[-1;1] U(1)= 23 4 (6)-3 ((-1)=10) Pc (x(+),y(t)=10 & r=> He hpunaguemum mary Bz(x) S) X(+)=t, y(+)=cost r=4 (2(0, H) $PL^{2}(0;\pi) = \{(t), y(t)\} = \{(t-\cos t)^{2}dt = \{(t+\cos t)^{2}dt\} = \{$ = \int t^2 - 2 t. cost + cos(t)2 dt = \int t^2 dt - \int 2 t. cos t dt + \int cos t dt = + Sin 25 - (03 - 2 · osino - 2 cos o + 1 · o + sin(2.0)) = 3 + 4 + 2 = 15,90622 15,50622 > r(4) => He npulagremum maps B1(x)