

201/2013

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$\mathbb{P}^1 \times \mathbb{P}^1 \rightarrow \mathbb{P}^1$

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$$(\hat{u} - \hat{u}_0) = \frac{1}{2} \frac{\partial \hat{u}}{\partial x} \bigg|_{x=0} \Delta x + \mathcal{O}(\Delta x^2)$$
[illegible]
$$u_4 \quad u_3 \quad u_2 \quad u_1 \quad u_0 : / H / p p b \gg ' H p \hat{O} p \beta ' \quad 1(H p \# p \tilde{a}$$
 $\partial_{\zeta_n} \partial$

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$$V_n \approx \frac{1}{n} \sum_{i=1}^n \frac{1}{\sigma_i^2} \quad (2)$$
$$\partial_n \partial F \# * \partial \partial \#$$

$\lim_{x \rightarrow 0^+} u_n$ $b\check{z}$ — $b\check{c}p$ — $\lim_{x \rightarrow 0^+} v_n$ $\mathbb{E}(p^3)p\mathcal{E} \#$ $p''p\beta p\check{u}$ / p' n $p''p\beta p\check{u}$ / $p'p\check{E}$ $1(p'p\check{E}$

$$S_2 \tilde{\sigma} = u_0 \tilde{\sigma}_1 \tilde{\sigma}_2 + \dots \tilde{\sigma} + u_1 \quad H_1 \tilde{\sigma} = v_0 \tilde{\sigma}_1 \tilde{\sigma}_2 + \dots \tilde{\sigma} + v_1 : F \cup p p \tilde{E} \cap p p \tilde{S} \cap p p \tilde{D} \#$$

(b) (7)(D), (b) (7)(F)

$$f(x) = \frac{x^2}{x^2 + 1} : [0, \infty) \rightarrow [0, 1]; \quad f(0) = 0, \quad f(1) = \frac{1}{2}, \quad f(2) = \frac{4}{5}, \quad f(3) = \frac{9}{10}, \quad f(4) = \frac{16}{17}, \quad f(5) = \frac{25}{26}, \quad f(6) = \frac{36}{37}, \quad f(7) = \frac{49}{50}, \quad f(8) = \frac{64}{65}, \quad f(9) = \frac{81}{82}, \quad f(10) = \frac{100}{101}, \quad f(11) = \frac{121}{122}, \quad f(12) = \frac{144}{145}, \quad f(13) = \frac{169}{170}, \quad f(14) = \frac{196}{197}, \quad f(15) = \frac{225}{226}, \quad f(16) = \frac{256}{257}, \quad f(17) = \frac{289}{290}, \quad f(18) = \frac{324}{325}, \quad f(19) = \frac{361}{362}, \quad f(20) = \frac{400}{401}, \quad f(21) = \frac{441}{442}, \quad f(22) = \frac{484}{485}, \quad f(23) = \frac{529}{530}, \quad f(24) = \frac{576}{577}, \quad f(25) = \frac{625}{626}, \quad f(26) = \frac{676}{677}, \quad f(27) = \frac{729}{730}, \quad f(28) = \frac{784}{785}, \quad f(29) = \frac{841}{842}, \quad f(30) = \frac{900}{901}, \quad f(31) = \frac{961}{962}, \quad f(32) = \frac{1024}{1025}, \quad f(33) = \frac{1089}{1090}, \quad f(34) = \frac{1156}{1157}, \quad f(35) = \frac{1225}{1226}, \quad f(36) = \frac{1296}{1297}, \quad f(37) = \frac{1369}{1370}, \quad f(38) = \frac{1444}{1445}, \quad f(39) = \frac{1521}{1522}, \quad f(40) = \frac{1600}{1601}, \quad f(41) = \frac{1681}{1682}, \quad f(42) = \frac{1764}{1765}, \quad f(43) = \frac{1849}{1850}, \quad f(44) = \frac{1936}{1937}, \quad f(45) = \frac{2025}{2026}, \quad f(46) = \frac{2116}{2117}, \quad f(47) = \frac{2209}{2210}, \quad f(48) = \frac{2304}{2305}, \quad f(49) = \frac{2401}{2402}, \quad f(50) = \frac{2500}{2501}, \quad f(51) = \frac{2601}{2602}, \quad f(52) = \frac{2704}{2705}, \quad f(53) = \frac{2809}{2810}, \quad f(54) = \frac{2916}{2917}, \quad f(55) = \frac{3025}{3026}, \quad f(56) = \frac{3136}{3137}, \quad f(57) = \frac{3249}{3250}, \quad f(58) = \frac{3364}{3365}, \quad f(59) = \frac{3481}{3482}, \quad f(60) = \frac{3600}{3601}, \quad f(61) = \frac{3721}{3722}, \quad f(62) = \frac{3844}{3845}, \quad f(63) = \frac{3969}{3970}, \quad f(64) = \frac{4096}{4097}, \quad f(65) = \frac{4225}{4226}, \quad f(66) = \frac{4356}{4357}, \quad f(67) = \frac{4489}{4490}, \quad f(68) = \frac{4624}{4625}, \quad f(69) = \frac{4761}{4762}, \quad f(70) = \frac{4900}{4901}, \quad f(71) = \frac{5041}{5042}, \quad f(72) = \frac{5184}{5185}, \quad f(73) = \frac{5329}{5330}, \quad f(74) = \frac{5476}{5477}, \quad f(75) = \frac{5625}{5626}, \quad f(76) = \frac{5776}{5777}, \quad f(77) = \frac{5929}{5930}, \quad f(78) = \frac{6084}{6085}, \quad f(79) = \frac{6241}{6242}, \quad f(80) = \frac{6400}{6401}, \quad f(81) = \frac{6561}{6562}, \quad f(82) = \frac{6724}{6725}, \quad f(83) = \frac{6889}{6890}, \quad f(84) = \frac{7056}{7057}, \quad f(85) = \frac{7225}{7226}, \quad f(86) = \frac{7396}{7397}, \quad f(87) = \frac{7569}{7570}, \quad f(88) = \frac{7744}{7745}, \quad f(89) = \frac{7921}{7922}, \quad f(90) = \frac{8100}{8101}, \quad f(91) = \frac{8281}{8282}, \quad f(92) = \frac{8464}{8465}, \quad f(93) = \frac{8649}{8650}, \quad f(94) = \frac{8836}{8837}, \quad f(95) = \frac{9025}{9026}, \quad f(96) = \frac{9216}{9217}, \quad f(97) = \frac{9409}{9410}, \quad f(98) = \frac{9604}{9605}, \quad f(99) = \frac{9801}{9802}, \quad f(100) = \frac{10000}{10001}, \quad f(101) = \frac{10201}{10202}, \quad f(102) = \frac{10404}{10405}, \quad f(103) = \frac{10609}{10610}, \quad f(104) = \frac{10816}{10817}, \quad f(105) = \frac{11025}{11026}, \quad f(106) = \frac{11236}{11237}, \quad f(107) = \frac{11449}{11450}, \quad f(108) = \frac{11664}{11665}, \quad f(109) = \frac{11881}{11882}, \quad f(110) = \frac{12100}{12101}, \quad f(111) = \frac{12321}{12322}, \quad f(112) = \frac{12544}{12545}, \quad f(113) = \frac{12769}{12770}, \quad f(114) = \frac{12996}{12997}, \quad f(115) = \frac{13225}{13226}, \quad f(116) = \frac{13456}{13457}, \quad f(117) = \frac{13689}{13690}, \quad f(118) = \frac{13924}{13925}, \quad f(119) = \frac{14161}{14162}, \quad f(120) = \frac{14400}{14401}, \quad f(121) = \frac{14641}{14642}, \quad f(122) = \frac{14884}{14885}, \quad f(123) = \frac{15129}{15130}, \quad f(124) = \frac{15376}{15377}, \quad f(125) = \frac{15625}{15626}, \quad f(126) = \frac{15876}{15877}, \quad f(127) = \frac{16129}{16130}, \quad f(128) = \frac{16384}{16385}, \quad f(129) = \frac{16641}{16642}, \quad f(130) = \frac{16900}{16901}, \quad f(131) = \frac{17161}{17162}, \quad f(132) = \frac{17424}{17425}, \quad f(133) = \frac{17689}{17690}, \quad f(134) = \frac{17956}{17957}, \quad f(135) = \frac{18225}{18226}, \quad f(136) = \frac{18496}{18497}, \quad f(137) = \frac{18769}{18770}, \quad f(138) = \frac{19044}{19045}, \quad f(139) = \frac{19321}{19322}, \quad f(140) = \frac{19600}{19601}, \quad f(141) = \frac{19881}{19882}, \quad f(142) = \frac{20164}{20165}, \quad f(143) = \frac{20449}{20450}, \quad f(144) = \frac{20736}{20737}, \quad f(145) = \frac{21025}{21026}, \quad f(146) = \frac{21316}{21317}, \quad f(147) = \frac{21609}{21610}, \quad f(148) = \frac{21904}{21905}, \quad f(149) = \frac{22201}{22202}, \quad f(150) = \frac{22500}{22501}, \quad f(151) = \frac{22801}{22802}, \quad f(152) = \frac{23104}{23105}, \quad f(153) = \frac{23409}{23410}, \quad f(154) = \frac{23716}{23717}, \quad f(155) = \frac{24025}{24026}, \quad f(156) = \frac{24336}{24337}, \quad f(157) = \frac{24649}{24650}, \quad f(158) = \frac{24964}{24965}, \quad f(159) = \frac{25281}{25282}, \quad f(160) = \frac{25600}{25601}, \quad f(161) = \frac{25921}{25922}, \quad f(162) = \frac{26244}{26245}, \quad f(163) = \frac{26569}{26570}, \quad f(164) = \frac{26896}{26897}, \quad f(165) = \frac{27225}{27226}, \quad f(166) = \frac{27556}{27557}, \quad f(167) = \frac{27889}{27890}, \quad f(168) = \frac{28224}{28225}, \quad f(169) = \frac{28561}{28562}, \quad f(170) = \frac{28900}{28901}, \quad f(171) = \frac{29241}{29242}, \quad f(172) = \frac{29584}{29585}, \quad f(173) = \frac{29929}{29930}, \quad f(174) = \frac{30276}{30277}, \quad f(175) = \frac{30625}{30626}, \quad f(176) = \frac{30976}{30977}, \quad f(177) = \frac{31329}{31330}, \quad f(178) = \frac{31684}{31685}, \quad f(179) = \frac{32041}{32042}, \quad f(180) = \frac{32400}{32401}, \quad f(181) = \frac{32761}{32762}, \quad f(182) = \frac{33124}{33125}, \quad f(183) = \frac{33489}{33490}, \quad f(184) = \frac{33856}{33857}, \quad f(185) = \frac{34225}{3422$$

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$$f(\partial(\partial)) = ax \partial + \frac{c}{x\partial^4} : D_f \text{ Fpã} \quad c \neq a \quad 2$$

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