

解答

1. 不定積分 (分数係数) その 1

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|---|---|--|
| (1) $\frac{1}{2}x^4 + \frac{1}{3}x^3 + \frac{3}{10}x^2 + \frac{13}{12}x + C$ | (2) $\frac{9}{32}x^4 + \frac{3}{8}x^3 - 2x + C$ | (3) $-\frac{1}{14}x^4 + \frac{17}{30}x^3 - \frac{4}{7}x + C$ |
| (4) $\frac{1}{8}x^4 + \frac{2}{9}x^3 - \frac{2}{3}x^2 + C$ | (5) $\frac{1}{4}x^4 + \frac{1}{2}x^3 - \frac{1}{4}x^2 + \frac{4}{5}x + C$ | (6) $\frac{1}{2}x^3 + x^2 + \frac{19}{12}x + C$ |
| (7) $\frac{1}{4}x^3 - \frac{9}{10}x^2 + C$ | (8) $\frac{13}{21}x^3 + \frac{2}{3}x^2 + C$ | (9) $\frac{1}{10}x^4 + \frac{1}{6}x^3 + \frac{11}{12}x^2 + \frac{1}{3}x + C$ |
| (10) $-\frac{1}{2}x^4 + \frac{2}{9}x^3 - \frac{23}{24}x^2 - \frac{3}{2}x + C$ | (11) $\frac{3}{5}x^3 - \frac{3}{4}x^2 - x + C$ | (12) $\frac{1}{2}x^4 - \frac{7}{20}x^2 - \frac{7}{4}x + C$ |
| (13) $\frac{7}{15}x^3 - \frac{2}{3}x^2 - \frac{3}{2}x + C$ | (14) $\frac{23}{48}x^4 - \frac{2}{7}x^2 + C$ | (15) $-\frac{1}{3}x^3 - x^2 - 2x + C$ |

2. 不定積分 (分数係数) その 2

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| (1) $\frac{1}{2}x^4 + \frac{1}{21}x^3 - \frac{11}{12}x^2 - \frac{1}{2}x + C$ | (2) $\frac{3}{8}x^4 - x^2 + \frac{12}{7}x + C$ | (3) $-\frac{1}{6}x^4 + \frac{2}{21}x^3 + \frac{3}{2}x + C$ |
| (4) $-\frac{1}{2}x^3 + \frac{1}{3}x^2 - \frac{11}{8}x + C$ | (5) $\frac{1}{2}x^4 + \frac{1}{3}x^2 + \frac{9}{8}x + C$ | (6) $\frac{3}{8}x^3 + \frac{1}{2}x^2 - \frac{1}{3}x + C$ |
| (7) $-\frac{1}{16}x^4 + \frac{2}{9}x^3 + \frac{1}{7}x^2 + 2x + C$ | (8) $-\frac{9}{20}x^4 + \frac{1}{10}x^3 - \frac{4}{3}x + C$ | (9) $\frac{7}{20}x^4 - x^2 - x + C$ |
| (10) $\frac{1}{10}x^4 - \frac{3}{10}x^3 + \frac{19}{10}x + C$ | (11) $-\frac{1}{24}x^4 + \frac{4}{5}x^2 + 2x + C$ | (12) $\frac{3}{10}x^4 - \frac{11}{20}x^2 + x + C$ |
| (13) $-\frac{2}{9}x^3 - \frac{1}{3}x^2 + C$ | (14) $\frac{1}{2}x^4 + \frac{2}{3}x^2 - \frac{4}{7}x + C$ | (15) $-\frac{1}{2}x^4 + \frac{1}{2}x^3 + \frac{6}{5}x + C$ |

3. 不定積分 (分数係数) その 3

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| (1) $-\frac{1}{2}x^4 + \frac{1}{6}x^3 - \frac{1}{6}x^2 + C$ | (2) $-\frac{1}{3}x^4 + \frac{1}{3}x^2 + C$ | (3) $\frac{2}{9}x^3 - x^2 + \frac{8}{5}x + C$ |
| (4) $\frac{1}{2}x^4 + \frac{11}{18}x^3 - \frac{1}{8}x^2 - 2x + C$ | (5) $\frac{1}{4}x^4 + \frac{1}{3}x^2 - \frac{1}{3}x + C$ | (6) $\frac{1}{6}x^4 - \frac{1}{3}x^2 - 2x + C$ |
| (7) $\frac{1}{3}x^4 + \frac{3}{5}x^3 + \frac{1}{2}x^2 - x + C$ | (8) $\frac{19}{40}x^4 - \frac{6}{7}x^2 + C$ | (9) $\frac{1}{2}x^4 + \frac{1}{6}x^3 - \frac{3}{2}x + C$ |
| (10) $\frac{1}{9}x^3 + x^2 - \frac{3}{2}x + C$ | (11) $\frac{5}{12}x^4 + \frac{1}{3}x^3 + x^2 + C$ | (12) $\frac{1}{8}x^4 - \frac{1}{18}x^3 + \frac{4}{5}x^2 + C$ |
| (13) $-\frac{1}{3}x^4 + \frac{1}{24}x^3 - \frac{1}{3}x^2 - \frac{4}{3}x + C$ | (14) $\frac{1}{10}x^4 - \frac{1}{8}x^2 - \frac{1}{2}x + C$ | (15) $\frac{15}{32}x^4 - \frac{1}{4}x^3 + \frac{7}{4}x + C$ |

4. 不定積分 (分数係数) その 4

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| (1) $\frac{1}{12}x^4 - x^2 - \frac{5}{4}x + C$ | (2) $\frac{11}{24}x^4 - \frac{1}{6}x^3 - \frac{1}{5}x^2 - x + C$ | (3) $\frac{1}{2}x^4 + \frac{11}{18}x^3 - \frac{3}{20}x^2 + C$ |
| (4) $-\frac{1}{2}x^4 + \frac{1}{3}x^3 - x^2 + \frac{5}{3}x + C$ | (5) $\frac{3}{8}x^4 + \frac{3}{5}x^3 - \frac{4}{3}x + C$ | (6) $-\frac{1}{8}x^4 + \frac{1}{2}x^3 + C$ |
| (7) $\frac{1}{4}x^4 + \frac{1}{3}x^3 + x^2 - \frac{2}{3}x + C$ | (8) $\frac{5}{28}x^4 + \frac{1}{2}x^3 - \frac{2}{3}x + C$ | (9) $\frac{5}{12}x^4 - \frac{2}{5}x^3 + \frac{13}{20}x^2 + C$ |
| (10) $\frac{1}{8}x^3 + \frac{1}{8}x^2 + C$ | (11) $\frac{5}{12}x^4 + \frac{4}{5}x^2 + C$ | (12) $\frac{1}{10}x^4 - \frac{1}{6}x^3 + C$ |
| (13) $\frac{1}{2}x^4 - \frac{2}{3}x^3 + \frac{1}{3}x^2 - \frac{1}{2}x + C$ | (14) $\frac{1}{2}x^4 - x^2 + 2x + C$ | (15) $-\frac{1}{4}x^4 - x^2 - \frac{2}{7}x + C$ |