

| №  | $\varphi(x, \nu)$   | $A\varphi$                        | $g(x)$                   | $a$  | $\sigma$ | $h(x)$           | $c$        | $d$       | $\lambda$ | $m$ | $n$ |
|----|---------------------|-----------------------------------|--------------------------|------|----------|------------------|------------|-----------|-----------|-----|-----|
| 1  | $\nu x \exp(-x^2)$  | $[0, +\infty)$                    | $x^2$                    | 0.4  | 1.6      | $x^2 + 2x - 2$   | $-\infty$  | 0         | 5         | 4   | 9   |
| 2  | $\nu/x^2$           | $[1, +\infty)$                    | $1 - (1/x)$              | 0.2  | 1.2      | $x^3$            | -1         | 2         | 4         | 5   | 10  |
| 3  | $\exp(-\nu x )$     | $\mathbb{R}$                      | $\sqrt{ x }$             | -1   | 1.3      | $ x^3 $          | 1          | 2         | 0.9       | 2   | 6   |
| 4  | $\nu/x^4$           | $(-\infty, -1] \cup [1, +\infty)$ | $e^x$                    | -0.3 | 0.7      | $\exp(- x )$     | -0.3       | $e^{-1}$  | 0.8       | 1   | 3   |
| 5  | $\nu/x^3$           | $[1, +\infty)$                    | $\ln x$                  | 1.2  | 1.5      | $x^2 + 1$        | 2          | 4         | 4         | 4   | 8   |
| 6  | $\nu x^2(1-x)$      | $[0, 1]$                          | $2x + 1$                 | 0.4  | 0.9      | $- x + 2 $       | -2         | -1        | 3         | 1   | 21  |
| 7  | $\nu \sin x$        | $[0, \pi]$                        | $0.5(1 - \cos x)$        | 0.5  | 0.8      | $ x^2 - 3x + 2 $ | 0.1        | 1         | 5         | 9   | 13  |
| 8  | $\nu(x^2 - 3x + 2)$ | $[1, 2]$                          | $1/x$                    | 0.7  | 1.5      | $x^2 - 1$        | 0.5        | 1         | 2         | 5   | 20  |
| 9  | $\nu x^3(1-x)^2$    | $[0, 1]$                          | $\sin x$                 | -0.1 | 1.2      | $ x - 1 $        | 0.5        | 1.5       | 1         | 2   | 21  |
| 10 | $\theta e^{-2z}$    | $[0, +\infty)$                    | $1 - 0.5e^{-2x}$         | -0.2 | 1.3      | $\exp x $        | $e^{0.5}$  | $e^{0.6}$ | 0.8       | 3   | 12  |
| 11 | $\nu \exp(- x )$    | $\mathbb{R}$                      | $1 + x^2$                | 0.3  | 0.9      | $ 2x - 1 $       | 1          | 2         | 4         | 1   | 7   |
| 12 | $x \exp(-\nu x)$    | $[0, +\infty)$                    | $\ln x$                  | 0.4  | 0.5      | $ e^x - 1 $      | $e^{-1}$   | $e$       | 0.8       | 2   | 5   |
| 13 | $\nu x(1-x)$        | $[0, 1]$                          | $\sqrt{1-x^2}$           | 0.5  | 0.8      | $x^2$            | 1          | 1.5       | 0.9       | 1   | 5   |
| 14 | $\nu/x^5$           | $[1, +\infty)$                    | $1 - x^{-4}$             | -0.3 | 1.2      | $x^3 - 1$        | -1         | 1         | 1         | 3   | 13  |
| 15 | $\nu/x^{-1/3}$      | $(0, 1]$                          | $x^{2/3} + 1$            | 0.1  | 1.2      | $1/(1+x^2)$      | 0.1        | 0.8       | 3         | 2   | 5   |
| 16 | $\nu x(3-x^3)$      | $[0, 1]$                          | $e^{-x}$                 | 0.3  | 1.3      | $1 - x^2$        | -1.5       | 0.2       | 4         | 3   | 7   |
| 17 | $\nu x^2(1-x^2)$    | $[0, 1]$                          | $\arcsin x$              | 0.2  | 0.9      | $ x^2 - 1 $      | 0.5        | 1         | 5         | 3   | 36  |
| 18 | $4/x^2$             | $[\nu, +\infty)$                  | $1 - 4x^{-1}$            | 0.5  | 1.5      | $ x^3  - 1$      | -0.1       | 0.2       | 4         | 7   | 18  |
| 19 | $\nu/x^{-0.25}$     | $(0, 1]$                          | $\ln(1+x)$               | -0.4 | 1.6      | $1/(1+ x )$      | 0          | 0.5       | 2         | 3   | 5   |
| 20 | $\nu \cos x$        | $[-\pi/2, \pi/2]$                 | $0.5(1 + \sin x)$        | 0.4  | 0.4      | $\exp 2x $       | $e^{0.25}$ | $e^{0.4}$ | 5         | 4   | 7   |
| 21 | $1 + x$             | $[-\nu, \nu]$                     | $0.5x^2 + x + 0.375$     | -0.6 | 0.8      | $ x^2 - 1 $      | 0.2        | 0.7       | 4         | 1   | 5   |
| 22 | $2 x^3 $            | $[-\nu, \nu]$                     | $x^{1/3}$                | -0.1 | 1.2      | $ x(x+1) $       | 0.2        | 0.5       | 3         | 3   | 6   |
| 23 | $\nu/\sqrt{1-x^2}$  | $[-1, 1]$                         | $0.5 + (1/\pi)\arcsin x$ | 0.2  | 1.3      | $2/(2+x^2)$      | 0.1        | 0.5       | 0.8       | 2   | 6   |
| 24 | $\nu/(1+x^2)$       | $\mathbb{R}$                      | $0.5 + (1/\pi)\arctg x$  | 0.4  | 1.5      | $\exp(-3 x )$    | $e^{-3}$   | $e^{-2}$  | 4         | 6   | 9   |
| 25 | $1/2x$              | $[1, \nu]$                        | $0.5 \ln x$              | -0.2 | 1.9      | $x^2 - 4$        | 1          | 2         | 2         | 2   | 4   |
| 26 | $\nu/(1+x^2)$       | $[-\pi/4, \pi/4]$                 | $2x - 4$                 | 0.6  | 0.6      | $x^2 - 2x - 1$   | -0.5       | 0.5       | 5         | 3   | 9   |

|    |             |                   |                 |     |     |            |           |     |   |   |   |
|----|-------------|-------------------|-----------------|-----|-----|------------|-----------|-----|---|---|---|
| 27 | $v/x^3$     | $[2, +\infty)$    | $\sqrt{x}$      | -1  | 2   | $2x(x+1)$  | 0         | 1   | 4 | 5 | 8 |
| 28 | $\exp(-3x)$ | $[v, +\infty)$    | $1-\exp(-3x)/3$ | 1   | 4   | $ x-2 $    | 1         | 2   | 3 | 0 | 4 |
| 29 | $vx^5(1-x)$ | $[0, 1]$          | $1-x^2$         | 0   | 2   | $ x $      | $-\infty$ | 2.5 | 1 | 1 | 5 |
| 30 | $v/(1+x^2)$ | $[-\pi/4, \pi/4]$ | $2x-4$          | 0.6 | 0.6 | $x^2-2x-1$ | -0.5      | 0.5 | 5 | 3 | 9 |
| 31 | $v/x^3$     | $[2, +\infty)$    | $\sqrt{x}$      | -1  | 2   | $2x(x+1)$  | 0         | 1   | 4 | 5 | 8 |
| 32 | $\exp(-3x)$ | $[v, +\infty)$    | $1-\exp(-3x)/3$ | 1   | 4   | $ x-2 $    | 1         | 2   | 3 | 0 | 4 |
| 33 | $vx^5(1-x)$ | $[0, 1]$          | $1-x^2$         | 0   | 2   | $ x $      | $-\infty$ | 2.5 | 1 | 1 | 5 |

Емельянов – № 2

Куклина – № 3

Лукьянов – № 4

Маринчук – № 7

Митяев – № 10

Москалец – № 5

Опанасенко – № 6

Растольцева – № 8

Салакин – № 9

Смурный – № 33

Тихонов – № 14

Фокина – № 12

Хрипунов – № 13

Ченцов – № 28