29.3. ТАБЛИЦА ПРЕОБРАЗОВАНИЙ ЛАПЛАСА

$f(s)$	$F(t)$

29.3.1. $\dfrac{1}{s}$ 1

29.3.2. $\dfrac{1}{s^2}$ t

29.3.3. $\dfrac{1}{s^n}$ $(n = 1, 2, 3, \ldots)$ $\dfrac{t^{n-1}}{(n-1)!}$

29.3.4. $\dfrac{1}{\sqrt{s}}$ $\dfrac{1}{\sqrt{\pi t}}$

29.3.5. $s^{-3/2}$ $2\sqrt{t/\pi}$

29.3.6. $s^{-(n+1/2)}$ $(n = 1, 2, 3, \ldots)$ $\dfrac{2^n t^{n-1/2}}{1 \cdot 3 \cdot 5 \ldots (2n-1)\sqrt{\pi}}$

29.3.7. $\dfrac{\Gamma(k)}{s^k}$ $(k > 0)$ t^{k-1}

29.3.8. $\dfrac{1}{s+a}$ e^{-at}

29.3.9. $\dfrac{1}{(s+a)^2}$ te^{-at}

29.3.10. $\dfrac{1}{(s+a)^n}$ $(n = 1, 2, 3, \ldots)$ $\dfrac{t^{n-1}e^{-at}}{(n-1)!}$

29.3.11. $\dfrac{\Gamma(k)}{(s-a)^k}$ $(k > 0)$ $t^{k-1}e^{-at}$

29.3.12. $\dfrac{1}{(s+a)(s+b)}$ $(a \neq b)$ $\dfrac{e^{-at} - e^{-bt}}{b-a}$

29.3.13. $\dfrac{s}{(s+a)(s+b)}$ $(a \neq b)$ $\dfrac{ae^{-at} - be^{-bt}}{a-b}$

29.3.14. $\dfrac{1}{(s+a)(s+b)(s+c)}$ $-\dfrac{(b-c)e^{-at} + (c-a)e^{-bt} + (a-b)e^{-ct}}{(a-b)(b-c)(c-a)}$

$(a, b, c$ — различные постоянные$)$

29.3.15. $\dfrac{1}{s^2+a^2}$ $\dfrac{1}{a}\sin at$

29.3.16. $\dfrac{s}{s^2+a^2}$ $\cos at$

29.3.17. $\dfrac{1}{s^2-a^2}$ $\dfrac{1}{a}\operatorname{sh} at$

29.3.18. $\dfrac{s}{s^2-a^2}$ $\operatorname{ch} at$

29.3.19. $\dfrac{1}{s(s^2+a^2)}$ $\dfrac{1}{a^2}(1 - \cos at)$

	$f(s)$	$F(t)$

29.3.20. $\dfrac{1}{s^2(s^2+a^2)}$ — $\dfrac{1}{a^3}(at-\sin at)$

29.3.21. $\dfrac{1}{(s^2+a^2)^2}$ — $\dfrac{1}{2a^3}(\sin at - at\cos at)$

29.3.22. $\dfrac{s}{(s^2+a^2)^2}$ — $\dfrac{t}{2a}\sin at$

29.3.23. $\dfrac{s^2}{(s^2+a^2)^2}$ — $\dfrac{1}{2a}(\sin at + at\cos at)$

29.3.24. $\dfrac{s^2-a^2}{(s^2+a^2)^2}$ — $t\cos at$

29.3.25. $\dfrac{s}{(s^2+a^2)(s^2+b^2)}$ $(a^2\neq b^2)$ — $\dfrac{\cos at - \cos bt}{b^2-a^2}$

29.3.26. $\dfrac{1}{(s+a)^2+b^3}$ — $\dfrac{1}{b}e^{-at}\sin bt$

29.3.27. $\dfrac{s+a}{(s+a)^2+b^2}$ — $e^{-at}\cos bt$

29.3.28. $\dfrac{3a^2}{s^3+a^3}$ — $e^{-at}-e^{at/2}\left(\cos\dfrac{at\sqrt{3}}{2}-\sqrt{3}\sin\dfrac{at\sqrt{3}}{2}\right)$

29.3.29. $\dfrac{4a^3}{s^4+4a^4}$ — $\sin at\,\mathrm{ch}\,at - \cos at\,\mathrm{sh}\,at$

29.3.30. $\dfrac{s}{s^4+4a^4}$ — $\dfrac{1}{2a^2}\sin at\,\mathrm{sh}\,at$

29.3.31. $\dfrac{1}{s^4-a^4}$ — $\dfrac{1}{2a^3}(\mathrm{sh}\,at - \sin at)$

29.3.32. $\dfrac{s}{s^4-a^4}$ — $\dfrac{1}{2a^2}(\mathrm{ch}\,at - \cos at)$

29.3.33. $\dfrac{8a^3s^2}{(s^2+a^2)^3}$ — $(1+a^2t^2)\sin at - at\cos at$

29.3.34. $\dfrac{1}{s}\left(\dfrac{s-1}{s}\right)^n$ — $L_n(t)$

29.3.35. $\dfrac{s}{(s+a)^{3/2}}$ — $\dfrac{1}{\sqrt{\pi t}}e^{-at}(1-2at)$

29.3.36. $\sqrt{s+a}-\sqrt{s+b}$ — $\dfrac{1}{2\sqrt{\pi t^3}}(e^{-bt}-e^{-at})$

29.3.37. $\dfrac{1}{\sqrt{s}+a}$ — $\dfrac{1}{\sqrt{\pi t}} - ae^{a^2t}\operatorname{erfc}a\sqrt{t}$

29.3.38. $\dfrac{\sqrt{s}}{s-a^2}$ — $\dfrac{1}{\sqrt{\pi t}} + ae^{a^2t}\operatorname{erf}a\sqrt{t}$

29.3.39. $\dfrac{\sqrt{s}}{s+a^2}$ — $\dfrac{1}{\sqrt{\pi t}} - \dfrac{2a}{\sqrt{\pi}}e^{-a^2t}\displaystyle\int_0^{a\sqrt{t}}e^{\lambda^2}\,d\lambda$

29.3.40. $\dfrac{1}{\sqrt{s}(s-a^2)}$ — $\dfrac{1}{a}e^{a^2t}\operatorname{erf}a\sqrt{t}$

29.3.41. $\dfrac{1}{\sqrt{s}(s+a^2)}$ — $\dfrac{2}{a\sqrt{\pi}}e^{-a^2t}\displaystyle\int_0^{a\sqrt{t}}e^{\lambda^2}\,d\lambda$

	$f(s)$	$F(t)$
29.3.42.	$\dfrac{b^2 - a^2}{(s - a^2)(b + \sqrt{s})}$	$e^{a^2 t}[b - a\operatorname{erf} a\sqrt{t}] - be^{b^2 t}\operatorname{erfc} b\sqrt{t}$
29.3.43.	$\dfrac{1}{\sqrt{s}\,(\sqrt{s} + a)}$	$e^{a^2 t}\operatorname{erfc} a\sqrt{t}$
29.3.44.	$\dfrac{1}{(s + a)\sqrt{s + b}}$	$\dfrac{1}{\sqrt{b - a}}\,e^{-at}\operatorname{erf}(\sqrt{b - a}\,\sqrt{t})$
29.3.45.	$\dfrac{b^2 - a^2}{\sqrt{s}(s - a^2)(\sqrt{s} + b)}$	$e^{a^2 t}\left[\dfrac{b}{a}\operatorname{erf}(a\sqrt{t}) - 1\right] + e^{b^2 t}\operatorname{erfc} b\sqrt{t}$
29.3.46.	$\dfrac{(1 - s)^n}{s^{n+1/2}}$	$\dfrac{n!}{(2n)!\,\sqrt{\pi t}}\,H_{2n}(\sqrt{t})$
29.3.47.	$\dfrac{(1 - s)^n}{s^{n+1/2}}$	$\dfrac{n!}{(2n + 1)!\,\sqrt{\pi}}\,H_{2n+1}(\sqrt{t})$
29.3.48.	$\dfrac{\sqrt{s + 2a}}{\sqrt{s}} - 1$	$ae^{-at}[I_1(at) + I_0(at)]$
29.3.49.	$\dfrac{1}{\sqrt{s + a}\,\sqrt{s + b}}$	$e^{-\frac{1}{2}(a+b)t}\,I_0\left(\dfrac{a - b}{2}\,t\right)$
29.3.50.	$\dfrac{\Gamma(k)}{(s + a)^k(s + b)^k}$ $(k > 0)$	$\sqrt{\pi}\left(\dfrac{t}{a - b}\right)^{k-1/2}e^{-\frac{1}{2}(a+b)t}\,I_{k-1/2}\left(\dfrac{a - b}{2}\,t\right)$
29.3.51.	$\dfrac{1}{(s + a)^{1/2}(s + b)^{3/2}}$	$te^{-\frac{1}{2}(a+b)t}\left[I_0\left(\dfrac{a - b}{2}\,t\right) + I_1\left(\dfrac{a - b}{2}\,t\right)\right]$
29.3.52.	$\dfrac{\sqrt{s + 2a} - \sqrt{s}}{\sqrt{s + 2a} + \sqrt{s}}$	$\dfrac{1}{t}\,e^{-at}I_1(at)$
29.3.53.	$\dfrac{(a - b)^k}{(\sqrt{s + a} + \sqrt{s + b})^{2k}}$ $(k > 0)$	$\dfrac{k}{t}\,e^{-\frac{1}{2}(a+b)t}I_k\left(\dfrac{a - b}{2}\,t\right)$
29.3.54.	$\dfrac{(\sqrt{s + a} + \sqrt{s})^{-2\nu}}{\sqrt{s}\,\sqrt{s + a}}$ $(\nu > -1)$	$\dfrac{1}{a^\nu}e^{-\frac{1}{2}at}I_\nu\left(\dfrac{1}{2}\,at\right)$
29.3.55.	$\dfrac{1}{\sqrt{s^2 + a^2}}$	$J_0(at)$
29.3.56.	$\dfrac{(\sqrt{s^2 + a^2} - s)^\nu}{\sqrt{s^2 + a^2}}$ $(\nu > -1)$	$a^\nu J_\nu(at)$
29.3.57.	$\dfrac{1}{(s^2 + a^2)^k}$ $(k > 0)$	$\dfrac{\sqrt{\pi}}{\Gamma(k)}\left(\dfrac{t}{2a}\right)^{k-1/2}J_{k-1/2}(at)$
29.3.58.	$(\sqrt{s^2 + a^2} - s)^k$ $(k > 0)$	$\dfrac{ka^k}{t}\,J_k(at)$
29.3.59.	$\dfrac{(s - \sqrt{s^2 - a^2})^\nu}{\sqrt{s^2 - a^2}}$ $(\nu > -1)$	$a^\nu I_\nu(at)$
29.3.60.	$\dfrac{1}{(s^2 - a^2)^k}$ $(k > 0)$	$\dfrac{\sqrt{\pi}}{\Gamma(k)}\left(\dfrac{t}{2a}\right)^{k-1/2}I_{k-1/2}(at)$
29.3.61.	$\dfrac{1}{s}\,e^{-ks}$	$u(t - k)$
29.3.62.	$\dfrac{1}{s^2}\,e^{-ks}$	$(t - k)\,u(t - k)$

$f(s)$ $F(t)$
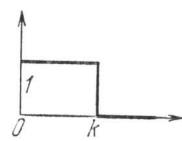
29.3.63. $\dfrac{1}{s^{\mu}}\, e^{-ks}$ $(\mu > 0)$

$\dfrac{(t-k)^{\mu-1}}{\Gamma(\mu)}\, u(t-k)$
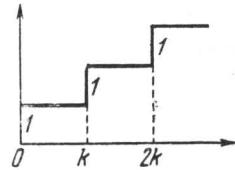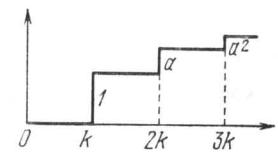

29.3.64. $\dfrac{1-e^{-ks}}{s}$

$u(t) - u(t-k)$

29.3.65. $\dfrac{1}{s(1-e^{-ks})} = \dfrac{1+\operatorname{cth}\dfrac{1}{2}\,ks}{2s}$
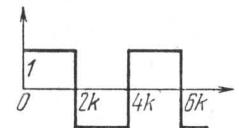
$\displaystyle\sum_{n=0}^{\infty} u(t-nk)$

29.3.66. $\dfrac{1}{s(e^{ks}-a)}$

$\displaystyle\sum_{n=1}^{\infty} a^{n-1}u(t-nk)$
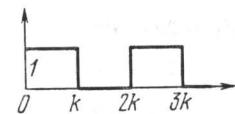
29.3.67. $\dfrac{1}{s}\operatorname{th} ks$

$u(t) + 2\displaystyle\sum_{n=1}^{\infty} (-1)^n\, u(t-2nk)$
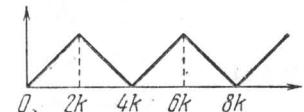
29.3.68. $-\dfrac{1}{s(1+e^{-ks})}$

$\displaystyle\sum_{n=0}^{\infty} (-1)^n\, u(t-nk)$
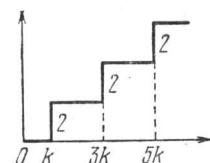
29.3.69. $\dfrac{1}{s^2}\operatorname{th} ks$

$tu(t) + 2\displaystyle\sum_{n=1}^{\infty} (-1)^n \times$
$\times\, (t-2nk)\, u(t-2nk)$
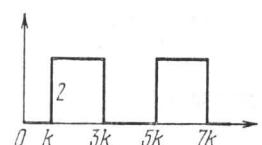
29.3.70. $\dfrac{1}{s\operatorname{sh} ks}$

$2\displaystyle\sum_{n=0}^{\infty} u[t-(2n+1)\,k]$
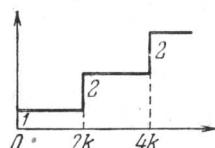
29.3.71. $\dfrac{1}{s\operatorname{ch} ks}$

$2\displaystyle\sum_{n=0}^{\infty} (-1)^n\, u[t-(2n+1)\,k]$
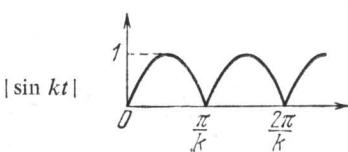

29.3.72. $\dfrac{1}{s}\operatorname{cth} ks$

$u(t) + 2\displaystyle\sum_{n=1}^{\infty} u(t-2nk)$
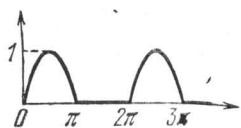
29.3.73. $\dfrac{k}{s^2+k^2}\operatorname{cth}\dfrac{\pi s}{2k}$

$|\sin kt|$

$f(s)$	$F(t)$

29.3.74. $\dfrac{1}{(s^2+1)(1-e^{-\pi s})}$

$\displaystyle\sum_{n=0}^{\infty}(-1)^n\, u(t-n\pi)\sin t$

29.3.75. $\dfrac{1}{s}\, e^{-k/s}$

$J_0(2\sqrt{kt})$

29.3.76. $\dfrac{1}{\sqrt{s}}\, e^{-k/s}$

$\dfrac{1}{\sqrt{\pi t}}\cos 2\sqrt{kt}$

29.3.77. $\dfrac{1}{\sqrt{s}}\, e^{k/s}$

$\dfrac{1}{\sqrt{\pi t}}\,\text{ch}\,2\sqrt{kt}$

29.3.78. $\dfrac{1}{s^{3/2}}\, e^{-k/s}$

$\dfrac{1}{\sqrt{\pi k}}\sin 2\sqrt{kt}$

29.3.79. $\dfrac{1}{s^{3/2}}\, e^{k/s}$

$\dfrac{1}{\sqrt{\pi k}}\,\text{sh}\,2\sqrt{kt}$

29.3.80. $\dfrac{1}{s^{\mu}}\, e^{-k/s}$ $(\mu>0)$

$\left(\dfrac{t}{k}\right)^{(\mu-1)/2}J_{\mu-1}(2\sqrt{kt})$

29.3.81. $\dfrac{1}{s^{\mu}}\, e^{k/s}$ $(\mu>0)$

$\left(\dfrac{t}{k}\right)^{(\mu-1)/2}I_{\mu-1}(2\sqrt{kt})$

29.3.82. $e^{-k\sqrt{s}}$ $(k>0)$

$\dfrac{k}{2\sqrt{\pi t^3}}\exp\left(-\dfrac{k^2}{4t}\right)$

29.3.83. $\dfrac{1}{s}\, e^{-k\sqrt{s}}$ $(k\geqslant 0)$

$\text{erfc}\,\dfrac{k}{2\sqrt{t}}$

29.3.84. $\dfrac{1}{\sqrt{s}}\, e^{-k\sqrt{s}}$ $(k\geqslant 0)$

$\dfrac{1}{\sqrt{\pi t}}\exp\left(-\dfrac{k^2}{4t}\right)$

29.3.85. $\dfrac{1}{s^{3/2}}\, e^{-k\sqrt{s}}$ $(k\geqslant 0)$

$2\sqrt{\dfrac{t}{\pi}}\exp\left(-\dfrac{k^2}{4t}\right)-k\,\text{erfc}\,\dfrac{k}{2\sqrt{t}}=2\sqrt{t}\,\text{i erfc}\,\dfrac{k}{2\sqrt{t}}$

29.3.86. $\dfrac{1}{s^{1+n/2}}\, e^{-k\sqrt{s}}$ $(n=0,\,1,\,2,\,...,\,k\geqslant 0)$

$(4t)^{n/2}\,\text{i}^n\,\text{erfc}\,\dfrac{k}{2\sqrt{t}}$

29.3.87. $s^{(n-1)/2}\, e^{-k\sqrt{s}}$ $(n=0,\,1,\,2,\,...;\,k>0)$

$\dfrac{\exp\left(-\dfrac{k^2}{4t}\right)}{2^n\sqrt{\pi t^{n+1}}}H_n\left(\dfrac{k}{2\sqrt{t}}\right)$

29.3.88. $\dfrac{e^{-k\sqrt{s}}}{a+\sqrt{s}}$ $(k\geqslant 0)$

$\dfrac{1}{\sqrt{\pi t}}\exp\left(-\dfrac{k^2}{4t}\right)-a\,e^{ak}e^{a^2t}\,\text{erfc}\left(a\sqrt{t}+\dfrac{k}{2\sqrt{t}}\right)$

29.3.89. $\dfrac{a\,e^{-k\sqrt{s}}}{s(a+\sqrt{s})}$ $(k\geqslant 0)$

$-e^{ak}e^{a^2t}\,\text{erfc}\left(a\sqrt{t}+\dfrac{k}{2\sqrt{t}}\right)+\text{erfc}\,\dfrac{k}{2\sqrt{t}}$

29.3.90. $\dfrac{e^{-k\sqrt{s}}}{\sqrt{s}(a+\sqrt{s})}$ $(k\geqslant 0)$

$e^{ak}e^{a^2t}\,\text{erfc}\left(a\sqrt{t}+\dfrac{k}{2\sqrt{t}}\right)$

29.3.91. $\dfrac{e^{-k\sqrt{s(s+a)}}}{\sqrt{s(s+a)}}$ $(k\geqslant 0)$

$e^{-at/2}I_0\left(\dfrac{1}{2}a\sqrt{t^2-k^2}\right)u(t-k)$

29.3.92. $\dfrac{e^{-k\sqrt{s^2+a^2}}}{\sqrt{s^2+a^2}}$ $(k\geqslant 0)$

$J_0(a\sqrt{t^2-k^2})\,u(t-k)$

$f(s)$	$F(t)$

29.3.93. $\dfrac{e^{-k\sqrt{s^2-a^2}}}{\sqrt{s^2-a^2}}$ $(k \geqslant 0)$ — $I_0(a\sqrt{t^2-k^2})\,u(t-k)$

29.3.94. $\dfrac{e^{-k(\sqrt{s^2+a^2}-s)}}{\sqrt{s^2+a^2}}$ $(k \geqslant 0)$ — $J_0(a\sqrt{t^2+2kt})$

29.3.95. $e^{-ks} - e^{-k\sqrt{s^2+a^2}}$ $(k > 0)$ — $\dfrac{ak}{\sqrt{t^2-k^2}}\,J_1(a\sqrt{t^2-k^2})\,u(t-k)$

29.3.96. $e^{-k\sqrt{s^2-a^2}} - e^{-ks}$ $(k > 0)$ — $\dfrac{ak}{\sqrt{t^2-k^2}}\,I_1(a\sqrt{t^2-k^2})\,u(t-k)$

29.3.97. $\dfrac{a^\nu e^{-k\sqrt{s^2+a^2}}}{\sqrt{s^2+a^2}\left(\sqrt{s^2+a^2}+s\right)^\nu}$ $(\nu > -1,\ k \geqslant 0)$ — $\left(\dfrac{t-k}{t+k}\right)^{\nu/2} J_\nu(a\sqrt{t^2-k^2})\,u(t-k)$

29.3.98. $\dfrac{1}{s}\ln s$ — $-\gamma - \ln t$ ($\gamma = 0.57721\,56649\ldots$ — постоянная Эйлера)

29.3.99. $\dfrac{1}{s^k}\ln s$ $(k > 0)$ — $\dfrac{t^{k-1}}{\Gamma(k)}[\psi(k) - \ln t]$

29.3.100. $\dfrac{\ln s}{s-a}$ $(a > 0)$ — $e^{at}[\ln a + E_1(at)]$

29.3.101. $\dfrac{\ln s}{s^2+1}$ — $\cos t\,\mathrm{Si}\,(t) - \sin t\,\mathrm{Ci}\,(t)$

29.3.102. $\dfrac{s\ln s}{s^2+1}$ — $-\sin t\,\mathrm{Si}\,(t) - \cos t\,\mathrm{Ci}(t)$

29.3.103. $\dfrac{1}{s}\ln(1+ks)$ $(k > 0)$ — $E_1\left(\dfrac{t}{k}\right)$

29.3.104. $\ln\dfrac{s+a}{s+b}$ — $\dfrac{1}{t}(e^{-bt} - e^{-at})$

29.3.105. $\dfrac{1}{s}\ln(1+k^2s^2)$ $(k > 0)$ — $-2\,\mathrm{Ci}\left(\dfrac{t}{k}\right)$

29.3.106. $\dfrac{1}{s}\ln(s^2+a^2)$ $(a > 0)$ — $2\ln a - 2\,\mathrm{Ci}\,(at)$

29.3.107. $\dfrac{1}{s^2}\ln(s^2+a^2)$ $(a > 0)$ — $\dfrac{2}{a}[at\ln a + \sin at - at\,\mathrm{Ci}\,(at)]$

29.3.108. $\ln\dfrac{s^2+a^2}{s^2}$ — $\dfrac{2}{t}(1-\cos at)$

29.3.109. $\ln\dfrac{s^2-a^2}{s^2}$ — $\dfrac{2}{t}(1-\mathrm{ch}\,at)$

29.3.110. $\mathrm{arctg}\dfrac{k}{s}$ — $\dfrac{1}{t}\sin kt$

29.3.111. $\dfrac{1}{s}\mathrm{arctg}\dfrac{k}{s}$ — $\mathrm{Si}\,(kt)$

29.3.112. $e^{k^2s^2}\mathrm{erfc}\,ks$ $(k > 0)$ — $\dfrac{1}{k\sqrt{\pi}}\exp\left(-\dfrac{t^2}{4k^2}\right)$

29.3.113. $\dfrac{1}{s}e^{k^2s^2}\mathrm{erfc}\,ks$ $(k > 0)$ — $\mathrm{erf}\dfrac{t}{2k}$

29.3.114. $e^{ks}\mathrm{erfc}\sqrt{ks}$ $(k > 0)$ — $\dfrac{\sqrt{k}}{\pi\sqrt{t}(t+k)}$

$f(s)$	$F(t)$
29.3.115. $\dfrac{1}{\sqrt{s}}\,\mathrm{erfc}\,\sqrt{ks}\quad(k\geqslant 0)$	$\dfrac{1}{\sqrt{\pi t}}\,u(t-k)$
29.3.116. $\dfrac{1}{\sqrt{s}}\,e^{ks}\,\mathrm{erfc}\,\sqrt{ks}\quad(k\geqslant 0)$	$\dfrac{1}{\sqrt{\pi(t+k)}}$
29.3.117. $\mathrm{erf}\,\dfrac{k}{\sqrt{s}}$	$\dfrac{1}{\pi t}\sin 2k\sqrt{t}$
29.3.118. $\dfrac{1}{\sqrt{s}}\,e^{k^2/s}\,\mathrm{erfc}\,\dfrac{k}{\sqrt{s}}$	$\dfrac{1}{\sqrt{\pi t}}\,e^{-2k\sqrt{t}}$
29.3.119. $K_0(ks)\quad(k>0)$	$\dfrac{1}{\sqrt{t^2-k^2}}\,u(t-k)$
29.3.120. $K_0(k\sqrt{s})\quad(k>0)$	$\dfrac{1}{2t}\exp\left(-\dfrac{k^2}{4t}\right)$
29.3.121. $\dfrac{1}{s}\,e^{ks}K_1(ks)\quad(k>0)$	$\dfrac{1}{k}\sqrt{t(t+2k)}$
29.3.122. $\dfrac{1}{\sqrt{s}}\,K_1(k\sqrt{s})\quad(k>0)$	$\dfrac{1}{k}\exp\left(-\dfrac{k^2}{4t}\right)$
29.3.123. $\dfrac{1}{\sqrt{s}}\,e^{k/s}K_0\left(\dfrac{k}{s}\right)\quad(k>0)$	$\dfrac{2}{\sqrt{\pi t}}\,K_0(2\sqrt{2kt})$
29.3.124. $\pi e^{-ks}\,I_0(ks)\quad(k>0)$	$\dfrac{1}{\sqrt{t(2k-t)}}\,[u(t)-u(t-2k)]$
29.3.125. $e^{-ks}\,I_1(ks)\quad(k>0)$	$\dfrac{k-t}{\pi k\sqrt{t(2k-t)}}\,[u(t)-u(t-2k)]$
29.3.126. $e^{as}\,E_1(as)\quad(a>0)$	$\dfrac{1}{t+a}$
29.3.127. $\dfrac{1}{a}-se^{as}\,E_1(as)\quad(a>0)$	$\dfrac{1}{(t+a)^2}$
29.3.128. $a^{1-n}\,e^{as}\,E_n(as)\quad(a>0;n=0,1,2,\ldots)$	$\dfrac{1}{(t+a)^n}$
29.3.129. $\left[\dfrac{\pi}{2}-\mathrm{Si}(s)\right]\cos s+\mathrm{Ci}(s)\sin s$	$\dfrac{1}{t^2+1}$