

(1) $y = \frac{x^3 - 2x + 3}{x + 1}$

(2) $y = \frac{x - 3}{(x - 1)(x - 2)}$

(3) $y = \frac{x^2 - x + 1}{x^2 + x + 1}$

(4) $y = \left(\frac{x}{x^2 + 1}\right)^3$

(5) $y = \left(\frac{2x + 3}{x^2 - 1}\right)^3$

(6) $y = \frac{(x^2 + 1)^2}{(x - 2)^3}$

(7) $y = 2x^2 + \sqrt{x - 4}$

(8) $y = (2x^2 + 1)\sqrt{2 - x^2}$

(9) $y = \frac{x}{\sqrt{x + 1}}$

(10) $y = \sqrt{\frac{1 - x}{1 + x}}$

(11) $y = x^2\sqrt{1 - x^2}$

(12) $y = \frac{1 - x^2}{\sqrt{1 + x^2}}$

(13) $y = (x + \sqrt{x^2 + 1})^2$

(14) $y = \frac{1}{x + \sqrt{x^2 - 1}}$

(15) $y = \frac{1 - x + 3x^2}{\sqrt{x}}$

(16) $y = \left(x - \frac{1}{\sqrt{x}}\right)^2$

(17) $y = \frac{x}{\sqrt{4 - x^2}}$

(18) $y = \sqrt{\frac{x^2 - 1}{x^2 + 1}}$

(19) $y = \sqrt{1 + \sqrt{1 + x}}$

(20) $y = \frac{x + \sqrt{x^2 - 1}}{x - \sqrt{x^2 - 1}}$

(21) $y = \frac{\sqrt{1 + x^2} - \sqrt{1 - x^2}}{\sqrt{1 + x^2} + \sqrt{1 - x^2}}$

(22) $y = (x + 3)\sqrt[3]{3 - 2x}$

(23) $y = \sqrt[3]{\frac{(x + 1)^2}{x^2 + 1}}$

(24) $y = \sin 2x$

(25) $y = \sin x \cos^2 x$

(26) $y = \sin^2 x \cos 2x$

(27) $y = \sin^2 \frac{x}{2}$

(28) $y = \sin^3(3x - \pi)$

(29) $y = \frac{1}{\sin^2 x}$

(30) $y = \tan^3\left(2x - \frac{\pi}{4}\right)$

(31) $y = \frac{1 - \sin x}{1 + \sin x}$

(32) $y = \frac{1 + \sin x}{\cos^2 x}$

(33) $y = \frac{\sin x + \cos x}{\sin x - \cos x}$

(34) $y = \sin \sqrt{x^2 + x + 1}$

(35) $y = \sqrt{1 - \sin 2x}$

(36) $y = \frac{1}{\sqrt{\tan x}}$

(37) $y = \sqrt{\frac{1 + \sin x}{1 - \sin x}}$

(38) $y = \sqrt{1 + \sin x} + \sqrt{1 - \sin x}$

(39) $y = \frac{1}{\sqrt{\sin x + \cos x}}$

(40) $y = \sin 2x \tan x$

(41) $y = \sin 3x + \cos x^3$

(42) $y = \sqrt{3\sin^2 x + 2\cos^2 x}$

(43) $y = \frac{\sin x}{\sqrt{4\cos^2 x + 3\sin^2 x}}$

(44) $y = e^{-x^3}$

(45) $y = a^{x^2 + 1}$

(46) $y = (e^x + e^{-x})^2$

(47) $y = x e^{-x^2}$

(48) $y = e^{ax} \cos bx$

(49) $y = e^{x^2} \sin x$

(50) $y = \log(x^2 + 1)$

(51) $y = x \log x$

(52) $y = \frac{\log x}{x}$

(53) $y = x^2 (\log x)^3$

(54) $y = \log_x a$

(55) $y = \frac{\sqrt{x}}{e^x}$

(56) $y = \log \frac{e^x + 1}{e^x}$

(57) $y = a^x \log x$

(58) $y = x e^{\frac{1}{x}}$

(59) $y = 2^x \sin x$

(60) $y = e^{-ax} \sin bx$

(61) $y = e^{x \sin x}$

(62) $y = \frac{e^x \cos x}{1 + \sin x}$

(63) $y = \log \left(\tan x + \frac{1}{\cos x} \right)$

(64) $y = \log \frac{1 + \sin x}{1 - \sin x}$

(65) $y = \log |2x - \sqrt{1 + 4x^2}|$

(66) $y = \log \left| \frac{x-a}{x+a} \right|$

(67) $y = \log \left| \tan \frac{x}{2} \right|$

(68) $y = \log \frac{2 \sin x + \cos x}{\sin x + 2 \cos x}$

(69) $y = \log \sqrt{\frac{2+x}{2-x}}$

(70) $y = (x+2)^2 (x+3)^3 (x+4)^4$

(71) $y = \frac{(x+1)^3}{(x+2)^2 (x+3)^4}$

(72) $y = \sqrt{\frac{(x-1)(x+3)}{(x+1)^3}}$

(73) $y = \sqrt{\frac{(x-1)^3}{(x^2+1)(x+1)}}$

(74) $y = \sin(\log x)$

(75) $y = \tan(\sin x)$

(76) $y = \log(\log x)$

(77) $y = \log(\sin^2 x)$

(78) $y = \log\{e^x(1-x)\}$

(79) $y = \frac{1}{2}\{(\log x)^2 + 1\}$

(80) $y = x^x \quad (x > 0)$

(81) $y = x^{\log x} \quad (x > 0)$

(82) $y = x^{\sin x} \quad (x > 0)$

(83) $y = (\tan x)^{\sin x} \quad (0 < x < \frac{\pi}{2})$

(84) $y = (\sin x)^{\sqrt{\log x}} \quad (x > 0)$

(85) $y = \log(\log(\log x))$

(86) $y = \sin(\sin(\sin x)) \quad (0 < x < \frac{\pi}{2})$

(87) $y = x^2 \sqrt{\frac{1+x^2}{1-x^2}}$

(88) $y = \sqrt{\frac{1-\sqrt[3]{x}}{1+\sqrt[3]{x}}}$

(89) $x = y\sqrt{1+y}$

(90) $2x^2 + 4xy + 5y^2 = 1$