1479. $y = \frac{x^3(x-1)}{(x+1)^2}$. 1480. $y = \frac{x}{(1-x^2)^2}$.

1481. $y = \frac{(x+1)^3}{(x-1)^2}$. 1482*. $y = \frac{x^4+8}{x^3+1}$.

1483. $y = \frac{1}{1+x} - \frac{10}{3x^2} + \frac{1}{1-x}$. 1484. $y = (x-3)\sqrt{x}$.

1485. $y = \pm\sqrt{8x^3-x^4}$. 1485.1. $y = \frac{x-2}{\sqrt{x^2+1}}$.

1486. $y = \pm\sqrt{(x-1)(x-2)(x-3)}$.

1487*. $y = \sqrt[3]{x^3-x^2-x+1}$.

1488. $y = \sqrt[3]{x^2} - \sqrt[3]{x^2+1}$.

1489. $y = (x+2)^{2/3} - (x-2)^{2/3}$.

1490. $y = (x+1)^{2/3} + (x-1)^{2/3}$. 1491. $y = \frac{x}{\sqrt[3]{x^2-1}}$.

1492. $y = \frac{x^2\sqrt{x^2-1}}{2x^2-1}$. 1493. $y = \frac{|1+x|^{3/2}}{\sqrt{x}}$.

1494. $y = 1 - x + \sqrt{\frac{x^3}{3+x}}$. 1495. $y = \sqrt[3]{\frac{x^2}{x+1}}$.

1496*. $y = \sqrt{\frac{x^4+3}{x^2+1}}$. 1497. $y = \sin x + \cos^2 x$.

1498. $y = (7 + 2\cos x)\sin x$. 1499. $y = \sin x + \frac{1}{3}\sin 3x$.

1500. $y = \cos x - \frac{1}{2}\cos 2x$. 1501. $y = \sin^4 x + \cos^4 x$.

1502. $y = \sin x \cdot \sin 3x$. 1503. $y = \frac{\sin x}{\sin\left(x + \frac{\pi}{4}\right)}$.

1504. $y = \frac{\cos x}{\cos 2x}$. 1504.1. $y = \frac{\sin x}{2 + \cos x}$.

1505. $y = 2x - \operatorname{tg} x$. 1506. $y = e^{2x-x^2}$.

1507. $y = (1+x^2)\,e^{-x^2}$. 1508. $y = x + e^{-x}$.

1509. $y = x^{2/3}e^{-x}$. 1509.1. $y = e^{-2x}\sin^2 x$.