

# Kurven – Stadt – Land – Fluss (LK<sup>1</sup>-Niveau)

	<b>Nullstellen (y &amp; x)</b>	<b>Ableitung (1. &amp; 2.)</b>	<b>Stammfunktion</b>	<b>Extrem- &amp; Wendestelle</b>	<b>Symmetrie &amp; Limes</b>
<b>A</b>	$f(x) = 2x - 8$	$f(x) = 20x^3 + 15x$	$f(x) = -4x^3 - 6x^2 + 3x$	$f(x) = 1/4x^3 - 3x$	$f(x) = -1/2x^2 + 5$
<b>B</b>	$f(x) = -x^2 - 7x - 10$	$f(x) = -4x^3 - 6x^2 + 3x$	$f(x) = -1/70 x^3 + 21x$	$f(x) = x^4 - 64$	$f(x) = -64x^4 + 6$
<b>C</b>	$f(x) = 6x^4 - 3x^2 + 2$	$f(x) = -1/20x^4 + 6/5x^2 - 4$	$f(x) = 20x^3 + 15x$	$f(x) = 1/9x^3 - 1/6x^2 - 2x$	$f(x) = x^4 - x^2 + 1$
<b>D</b>	$f(x) = 64x^4 + 4$	$f(x) = 1,5x - x^3 - 9x^2$	$f(x) = 23x^3 - 42x^2$	$f(x) = 27x^3 - 64$	$f(x) = 12x^6 - 2x^3 - 2$
<b>E</b>	$f(x) = 1,5x - x^3 - 9x^2$	$f(x) = 64x^4$	$f(x) = 74x^4$	$f(x) = -4x^4 - 3x^2 + 2$	$f(x) = -4x^3 - 6x^2 + 3x$
<b>F</b>	$f(x) = 64x^4$	$f(x) = 4x^4 - x^2 + 1$	$f(x) = -1/20x^4 + 6/5x^2 - 4$	$f(x) = 1,5x^4 - x^3 - 9x^2$	$f(x) = -1/20x^3 + 15x$
<b>G</b>	$f(x) = -1/20x^3 + 15x$	$f(x) = 23x^3 - 42x^2$	$f(x) = -1/6(5x^5 - 5x^3 + 15x)$	$f(x) = e^x(x^2 - x)$	$f(x) = -1/3(x^5 - 70x^3 + 35x)$
<b>H</b>	$f(x) = x^3 - 6x^2 + 9x$	$f(x) = 1/32(x^5 - 5x^4)$	$f(x) = 1/2xe^x$	$f(x) = 23x^3 - 42x^2$	$f(x) = 0,2e^{28x+1} - 0,1e^{0,15x}$
<b>I</b>	$f(x) = (x+6)(x-2)(x-4)$	$f(x) = 1/9x^3 - 1/6x^2 - 2x$	$f(x) = e^x(x^2 - x)$	$f(x) = 0,1x - e^{x+3}$	$f(x) = 1/9x^3 - 1/6x^2 - 2x$
<b>J</b>	$f(x) = -1/20x^4 + 6/5x^2 - 4$	$f(x) = 27x^3 - 64$	$f(x) = 1/9x^3 - 1/6x^2 - 2x$	$f(x) = -1/20 x^3 + 15x$	$f(x) = x^3 - 6x^2 + 9x$
<b>K</b>	$f(x) = -1/36(3x^5 - 50x^3 + 135x)$	$f(x) = x^3 - 6x^2 + 9x$	$f(x) = 1/32(x^5 - 5x^4)$	$f(x) = 1/9x^5 - 20/27x^4 - 10/9x^3$	$f(x) = 23x^3 - 42x^2$
<b>L</b>	$f(x) = 1/9x^5 - 20/27x^4 - 10/9x^3$	$f(x) = -8xe^x$	$f(x) = 5x^4 - 3x^2 + 2$	$f(x) = x^4 - x^2 + 10$	$f(x) = 1/2 x^4 - 3x^2 + 2$
<b>M</b>	$f(x) = 2x^8 + 4x^4 - 30$	$f(x) = -1/36(3x^5 - 50x^3 + 135x)$	$f(x) = e^{-x}(x+1)$	$f(x) = -1,7x^4 + 9,7x^3 - 16,4x^2 + 10,3x$	$f(x) = 1/32(x^5 - 5x^4)$
<b>N</b>	$f(x) = 2xe^x$	$f(x) = -x^2e^{x-2}$	$f(x) = 2x^8 + 4x^4 - 30$	$f(x) = -1/20x^4 + 6/5x^2 - 4$	$f(x) = 2x^8 + 4x^4 - 30$
<b>O</b>	$f(x) = 12x^6 - 2x^3 - 2$	$f(x) = 1/9x^5 - 20/27x^4 - 10/9x^3$	$f(x) = -1/20x^3 + 15x$	$f(x) = 0,06e^{0,25x}$	$f(x) = e^x(x^2 - x)$
<b>P</b>	$f(x) = e^{-x}(x+1)$	$f(x) = 0,2e^{0,28x} - 0,1e^{0,315x}$	$f(x) = -12x^4 - x^2 + 1/5$	$f(x) = 1/32(x^5 - 5x^4)$	$f(x) = 3x - e^{5x}$
<b>Q</b>	$f(x) = 1/32(x^5 - 5x^4)$	$f(x) = (x+1)e^{-x}$	$f(x) = (x+1)e^{-x}$	$f(x) = -1/36(3x^5 - 50x^3 + 135x)$	$f(x) = e^{-x}(x+1)$
<b>R</b>	$f(x) = -4x^3 - 6x^2 + 3x$	$f(x) = e^{-x}(x+1)$	$f(x) = 1,5x^4 - x^3 - 9x^2$	$f(x) = e^{-x}(x+1)$	$f(x) = -1/4 x^3 + 15x$
<b>S</b>	$f(x) = e^x(x^2 - x)$	$f(x) = x^4 - 3x^2 + 2$	$f(x) = 0,156x^4 - 0,345x^2 + 3,46$	$f(x) = -0,556x^2 \cdot e^{x-x^2}$	$f(x) = -1/20x^4 + 6/5x^2 - 4$
<b>T</b>	$f(x) = 0,7e^{0,8x} + 0,1e^{0,65x}$	$f(x) = 0,57x^4 - 0,453x^2 + 1,43$	$f(x) = -x^2 \cdot e^{x-2}$	$f(x) = 27x^3 - 64x^2 - 32x$	$f(x) = 27x^3 - 64$
<b>U</b>	$f(x) = 27x^3 - 64x^2 - 32x + 26$	$f(x) = 1,5x - x^3 - 9x^2$	$f(x) = 9x^5 - 20x^4 - 9x^3$	$f(x) = x^3 - 6x^2 + 9x$	$f(x) = e^x(x^2 - x)$
<b>V</b>	$f(x) = 0,556x^4 - 0,443x^2 + 1,24$	$f(x) = e^x(x^2 - x)$	$f(x) = 27x^3 - 64x^2 - 32x + 26$	$f(x) = 0,76x^4 - 0,843x^2 + 7,247$	$f(x) = 0,6x^4 - 0,47x^2 + 1,88$
<b>W</b>	$f(x) = 1/9x^3 - 1/6x^2 - 2x$	$f(x) = 2x^8 + 4x^4 - 30$	$f(x) = x^3 - 6x^2 + 9x$	$f(x) = -7/23 x^3 + 1,7x$	$f(x) = 1,5x^4 - x^3 - 9x^2$
<b>X<sup>1</sup></b>	$f(x) = \sqrt{4x - 8}$	$f(x) = \cos(1/6x)$	$f(x) = \frac{x}{6x-7}$	$f(x) = \sqrt{1/2x - 5}$	$f(x) = -3\sin(x)$
<b>Y<sup>1</sup></b>	$f(x) = 3\sin(6x)$	$f(x) = \frac{x-5}{2x-5}$	$f(x) = \sqrt{x-2}$	$f(x) = \frac{x+6}{2-x^2}$	$f(x) = -3\sqrt{3x-2}$
<b>Z<sup>1</sup></b>	$f(x) = \frac{x+1}{x-2}$	$f(x) = \sqrt{4x-8} + 3$	$f(x) = 5\sin(x) + 2$	$f(x) = 4\cos(2x) + 1/3$	$f(x) = -\frac{x+6}{x-3}$

