

삼차부등식의 기본예제

(Basic Example of Cubic Inequality)

Basic Example of Cubic Inequality

▶ Start

▶ End

▶ Start

▶ End

$$x^3 + 11x > 6x^2 + 6$$

▶ Start

▶ End

$$\begin{aligned}x^3 + 11x &> 6x^2 + 6 \\x^3 - 6x^2 + 11x - 6 &> 0\end{aligned}$$

▶ Start

▶ End

$$x^3 + 11x > 6x^2 + 6$$

$$x^3 - 6x^2 + 11x - 6 > 0$$

$$(x - 1)(x - 2)(x - 3) > 0$$

▶ Start

▶ End

$$x^3 + 11x > 6x^2 + 6$$

$$x^3 - 6x^2 + 11x - 6 > 0$$

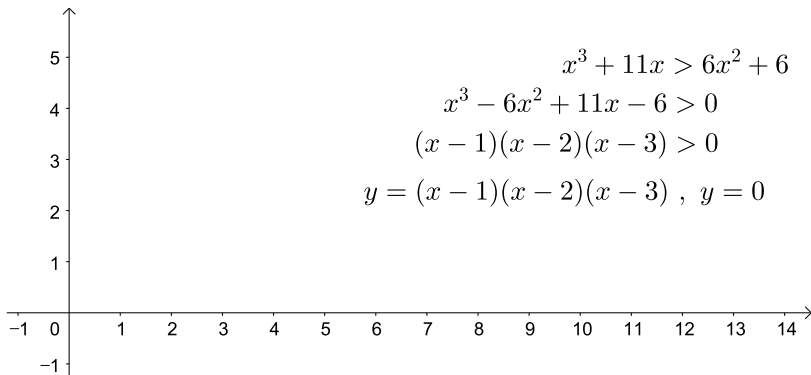
$$(x - 1)(x - 2)(x - 3) > 0$$

$$y = (x - 1)(x - 2)(x - 3), y = 0$$

Basic Example of Cubic Inequality

▶ Start

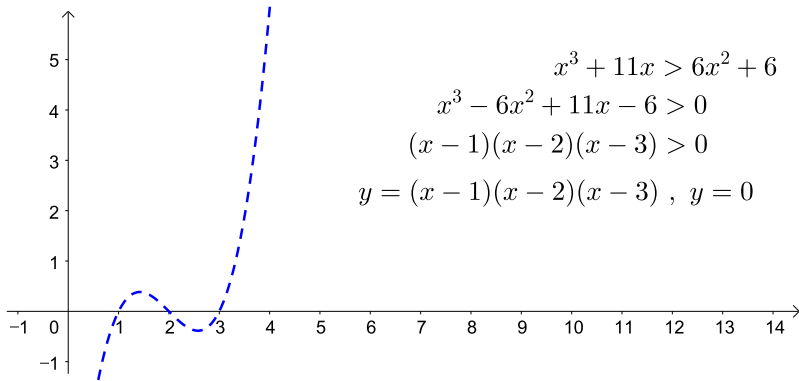
▶ End



Basic Example of Cubic Inequality

▶ Start

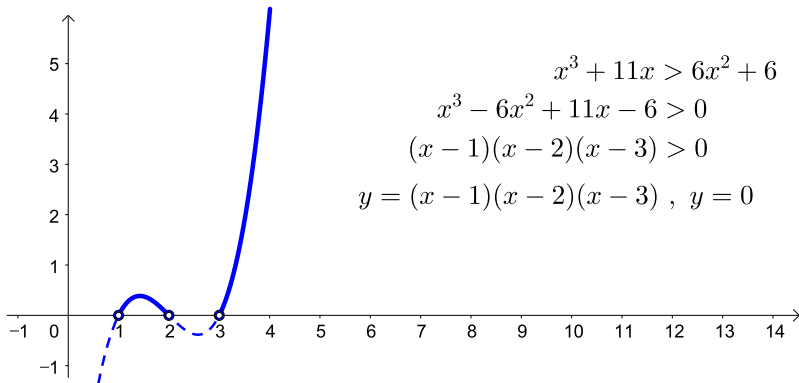
▶ End



Basic Example of Cubic Inequality

▶ Start

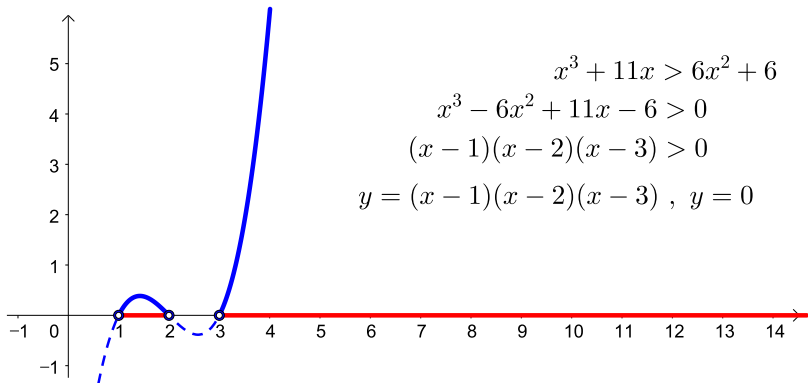
▶ End



Basic Example of Cubic Inequality

▶ Start

▶ End



$$x^3 + 11x > 6x^2 + 6$$

$$x^3 - 6x^2 + 11x - 6 > 0$$

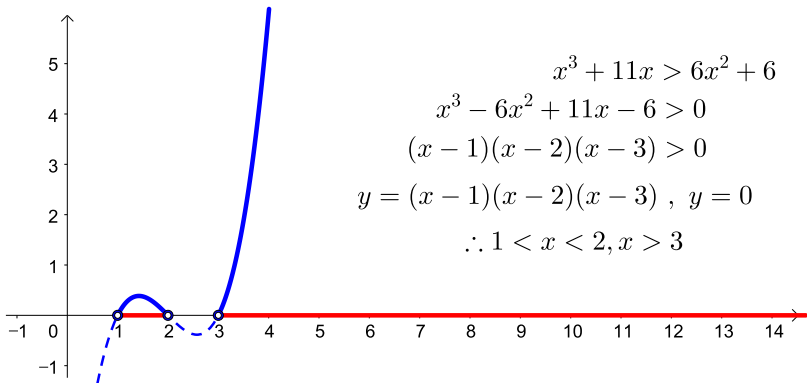
$$(x - 1)(x - 2)(x - 3) > 0$$

$$y = (x - 1)(x - 2)(x - 3), y = 0$$

Basic Example of Cubic Inequality

▶ Start

▶ End



Github:

<https://min7014.github.io/math20210728001.html>

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and you can see a picture moving.