

Getal & Ruimte

VWO 3 – Chapter 7

Example answer sheet

27.) a.

$$x^2 + 2x + 3 > 0$$

First:

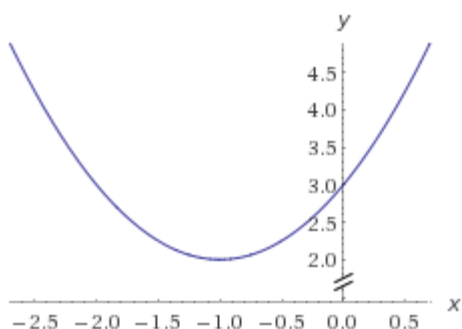
$$x^2 + 2x + 3 = 0$$

abc-rule:

$$a = 1, b = 2, c = 3$$

$$D = b^2 - 4ac = 2^2 - 4 \cdot 3 \cdot 1 = 4 - 12 = -8$$

$D < 0$, so no solutions.



$x^2 + 2x + 3 > 0$ for every x .

b.

$$-x^2 + 4x - 5 > 0$$

$$x^2 - 4x + 5 < 0$$

First:

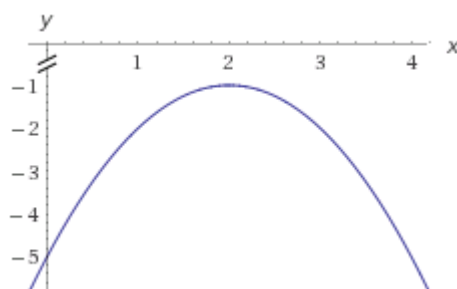
$$x^2 - 4x + 5 = 0$$

abc-rule:

$$a = 1, b = -4, c = 5$$

$$D = b^2 - 4ac = (-4)^2 - 4 \cdot 1 \cdot 5 = 16 - 20 = -4$$

$D < 0$, so no solutions.



$-x^2 + 4x - 5 > 0$ for no x .