

Kwadratiese vergelykings A :  
(Faktorisier)

①  $2x^2 = 32$

②  $(x-5)(x+2) = -10$

③  $2x^2 - 11x + 15 = 0$

## Kwadratische vergelykings B:

$$\left( \text{Formule } x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} \right)$$

$$\textcircled{1} \quad 4x^2 - 4x - 3 = 0$$

$$\textcircled{2} \quad 16x + 12 - x^2 = 0$$

$$\textcircled{3} \quad 5(x+1) = x(x+2)$$

$$\textcircled{4} \quad \text{Los op vir } x \text{ i.t.v } m: mx - 2x + m2x^2 - 1 = 0$$

## Kwadratische Vergelykings C:

(Vierkantsvoltooiing)

$$\textcircled{1} \quad 2x^2 - 11x + 15 = 0$$

$$\textcircled{2} \quad x^2 - 4x + 2 = 0$$

# MAKSIMUM en MINIMUM van UITDRUKKINGS

a)  $-3x^2 - 2x - 1$

b)  $2x^2 + 3x + 5$



## Breuke Vergelykings:

$$\textcircled{1} \frac{2x-5}{x+3} - \frac{1}{4-x} = \frac{7}{x^2-x-12}$$

$$\textcircled{2} \quad \frac{x+5}{x^2-2x-3} + \frac{1}{x+1} = \frac{2}{x-3}$$

## Wortel Vergelykings:

$$\textcircled{1} \sqrt{x+3} - 1 - x = 0$$

$$\textcircled{2} \sqrt{2x-1} - \sqrt{x-1} = 1$$

## SUBSTITUSIE / k-metode:

$$\textcircled{1} (x^2 - 4x)^2 + 5(x^2 - 4x) + 6 = 0$$

$$\textcircled{2} \quad x^2 - 3x - 2 = \frac{8}{x^2 - 3x}$$

$$\textcircled{3} \sqrt{4+6x-x^2} + x^2 - 6x + 2 = 0$$

## GELYKTYDIGE VERGELYKINGS:

$$\textcircled{1} \quad y + 3x = 5$$

$$y^2 - 3y + 10x = 8x^2 - 18$$

$$\textcircled{2} \quad 3x + 4y = 14$$

$$x^2 + xy - 3x - y = 0$$

$$\textcircled{3} \quad 3^x \cdot 9^y = 81$$

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

④ Indien  $x=2$  en  $y=b$  twee oplossings van  
van die vergelykings  $a + xy = 3$  en  
 $a^2 - 4xa + 4x = 8y - xay$   
bepaal die waardes van  $a$  en  $b$ .

## ONGELYKHEDE :

$$\textcircled{1} -x^2 + 5x + 6 < 0$$

$$\textcircled{2} 3x^2 - 2x \leq 1$$

$$\textcircled{3} x^2 - 1 > 0$$