

## PROEFWERK HOOFDSTUK 5 VWO 3

Vergeet je berekeningen en rekenstappen niet. Succes!

**Opgave 1.** Herleid. (6 pts)

- a.)  $(4p)^2 - (3p - 4q)^2$
- b.)  $(2x - 5y)(3x + y)$

**Opgave 2.** Los op. (8 pts)

- a.)  $3x^2 + 10x + 3 = 0$
- b.)  $2x^2 - 5x - 25 = 0$
- c.)  $4x^2 + 4x + 1 = 0$

**Opgave 3.** Geef eerst de discriminant en laat vervolgens met een schets zien hoeveel snijpunten de parabool heeft met de x-as. (9 pts)

- a.)  $y = 5x^2 - 2x - 8$
- b.)  $y = -2x^2 - 3x + 5$
- c.)  $y = 9x^2 - 6x + 1$

**Opgave 4.** Gegeven is de volgende functie:  $f(x) = -2x^2 + 9x + p$ . (12 pts)

- a.) Voor welke  $p$  heeft de grafiek van  $f$  de x-as? Gebruik de discriminant.
- b.) Voor welke  $p$  ligt het punt  $A(p, 9p - 5)$  op de grafiek van  $f$ ?
- c.) De grafiek van  $f$  snijdt de x-as in het punt  $(2, 0)$  en punt  $B$ . Bereken de coördinaten van punt  $B$ .

**Opgave 5.** Los op. (7 pts)

- a.)  $(2x - 3)^2 + x = -6$
- b.)  $9x = (2x - 3)^2 + (x - 2)(x + 5)$

**Opgave 6.** Een van rechthoekig roosterblad van 25 meter bij 25 meter is een tegelplaat aangelegd. De breedte van het tegelplaat is  $x$  meter. Tegen welke som schiet? (7 pts)

- a.) Toon aan dat de oppervlakte van het plaat gelijk is aan  $4x^2 + 100x$

# Getal En Ruimte Vwo 3 Hoofdstuk 5

**A. Kelfkens**

A decorative red circular graphic element, resembling a stylized arrow or a partial circle, is positioned to the right of the author's name.

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1 this article will explain superheat for anyone considering becoming an hvac technician or who might just need a refresher  
after completing their hvac training program

troubleshooting hvac r systems using refrigerant superheat - Oct 15 2023

web aug 12 2019 this application note provides information on troubleshooting the refrigeration system while applying the  
principles of superheat and subcooling to hvac r equipment it will also teach you the proper methods to tackle some typical  
troubleshooting tasks using thermometers digital multimeters pressure vacuum modules and hvac r