



Antwoordmodel

Zelftest 5.10.2

Naam kandidaat:

Examen no.

Examenvak:

Datum:

opgave 1

a
$$\frac{3xv}{3x} - \frac{2vy}{6vx} = \frac{3xv - 6xy}{6vx} = \frac{2vy}{2vy} = \frac{-3xv}{-3x} = y$$

$$\frac{2vy}{3xv - 6xy} = \frac{2vy}{2vy} = \frac{-3xv}{-3x} = y$$

b
$$\frac{p}{p+5} + \frac{q}{q-3} = \frac{p(q-3) + (p+5)q}{(p+5)(q-3)}$$

$$= \frac{pq - 3p + pq + 5q}{pq + 5q + pq - 3p}$$

$$= \frac{2pq + 5q - 3p}{2pq + 5q - 3p}$$

c
$$\frac{b}{2} \cdot g = \frac{b}{10}$$

d
$$\frac{c}{6} : \frac{2}{c} = \frac{c}{6} \cdot \frac{c}{2} = \frac{c^2}{12}$$

opgave 2

a
$$\frac{x^2 - 16}{(x-4)^2} = \frac{(x+4)(x-4)}{(x-4)^2} = \frac{x+4}{x-4}$$

Herken in $x^2 - 16$
het merkwaardig product
 $(x-b)(x+b) = x^2 - b^2$

b
$$\frac{x^2 + 6xy + 9y^2}{x^2 - 9y^2} = \frac{(x+3y)^2}{(x+3y)(x-3y)} = \frac{x+3y}{x-3y}$$

c
$$\frac{x+20}{x^2+400} = \frac{x+20}{x^2-400} = \frac{x+20}{(x-20)(x+20)} = \frac{1}{x-20}$$