

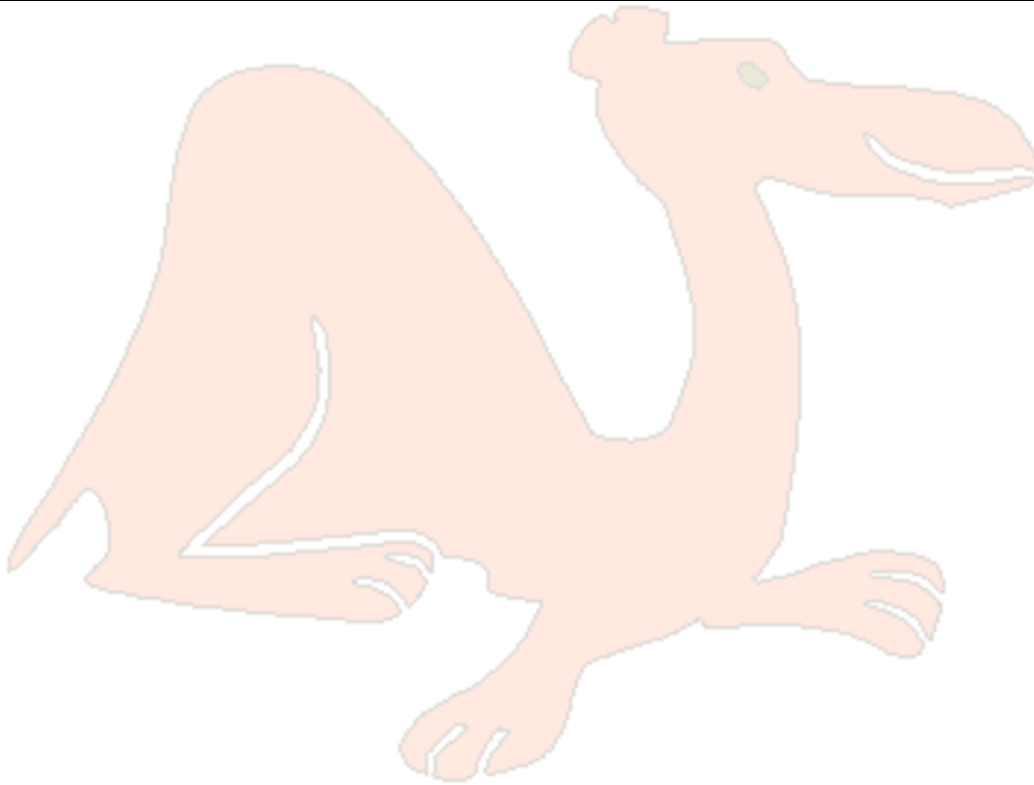


# CAMI Wiskunde: Graad 10

## GRAAD 11\_KABV Kurrikulum

### 11.8 Kolineêre punte

1. Bepaal of die punte  $D(6;4)$ ,  $E(2;1)$  en  $F(3;5)$  kolineêr is.
2. Bepaal of die punte  $A(5;7)$ ,  $B(7;1)$  en  $C(2;2)$  kolineêr is.
3. Bepaal of die punte  $U(5;1)$ ,  $V(7;1)$  en  $W(5;8)$  kolineêr is.
4. Indien  $T(5;9)$ ,  $U(7;7)$  en  $V(12;a)$  kolineêr is, bereken die waarde van  $a$ .
5. Indien  $C(a;1)$ ,  $D(4;4)$  en  $E(6;6)$  kolineêr is, bereken die waarde van  $a$ .





## MEMO

### 1. [8.8.7]

$$m_{DE} = \frac{1-4}{2-9}$$

$$m_{DE} = \frac{-3}{-7}$$

$$m_{DE} = \frac{3}{7}$$

$$m_{EF} = \frac{5-1}{3-2}$$

$$m_{EF} = \frac{4}{1}$$

$$m_{EF} = 4$$

$$m_{DE} \neq m_{EF}$$

D, E en F nie-kolineêr.

### 2.

$$m_{AB} = \frac{1-7}{7-5}$$

$$m_{AB} = -3$$

$$m_{BC} = \frac{2-1}{2-7}$$

$$m_{BC} = \frac{1}{-5}$$

$$m_{AB} \neq m_{BC}$$

A, B en C nie-kolineêr.

### 3.

$$m_{UV} = \frac{1-1}{7-5}$$

$$m_{UV} = 0$$

$$m_{VW} = \frac{8-1}{5-7}$$

$$m_{VW} = \frac{7}{-2}$$

$$m_{UV} \neq m_{VW}$$

U, V en W nie-kolineêr.

### 4.

$$m_{TU} = \frac{7-9}{7-5} = -1 \quad \text{en} \quad m_{UV} = \frac{a-7}{12-7} = \frac{a-7}{5}$$



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$$-1 = \frac{a-7}{5}$$

$$-5 = a-7$$

$$a = 2$$

5.

$$m_{DE} = \frac{6-4}{6-4} = 1$$

en

$$m_{CD} = \frac{4-1}{4-a} = \frac{3}{4-a}$$

$$1 = \frac{3}{4-a}$$

$$3 = 4-a$$

$$a = 1$$

