

KLASKAMER 10

GRAAD 11 WISKUNDE: EPISODE 38

GETALPATRONE

VRAAG 1:

- a. Die eerste drie terme van 'n lineêre getalpatroon word gegee:

$$x + 1; 2x + 1; x + 7$$

Los op vir x en bepaal vervolgens die ry.

(5)

- b. Bepaal die algemene term van die ry: $-2; 2; 4; 4; \dots$

(5)

BLIKslim

www.klaskamer10.co.za

TOTAAL: 10 PUNTE

GRAAD 11 WISKUNDE: EPISODE 38 (MEMORANDUM)

GETALPATRONE

VRAAG 1

a)

$$T_2 - T_1 = T_3 - T_2 \checkmark$$

$$\therefore 2x + 1 - (x + 1) = x + 7 - (2x + 1) \checkmark$$

$$\therefore 2x + 1 - x - 1 = x + 7 - 2x - 1 \checkmark$$

$$\therefore x = -x + 6$$

$$\therefore 2x = 6 \therefore x = 3 \checkmark$$

$$\therefore 4; 7; 10 \checkmark$$

b)

$$-2 \xrightarrow{+4} 2 \xrightarrow{+2} 4 \xrightarrow{+0} 4 \checkmark$$

$$\xrightarrow{-2} \quad \xrightarrow{-2}$$

$$2a = -2$$

$$\therefore a = -1 \checkmark$$

$$3a + b = 4$$

$$\therefore 3(-1) + b = 4 \therefore b = 7 \checkmark$$

$$a + b + c = -2$$

$$\therefore -1 + 7 + c = -2$$

$$\therefore c = -8 \checkmark$$

$$\therefore T_n = -n^2 + 7n - 8 \checkmark$$