

QUESTION 1 / VRAAG 1

1.1.1 $(x + 2)(3x - 7) = 0$

$\therefore x = -2$ or/of $x = \frac{7}{3}$

1.1.2 $x^2 - 5x = 2$

$x^2 - 5x - 2 = 0$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$= \frac{-(-5) \pm \sqrt{(-5)^2 - 4(1)(-2)}}{2(1)}$$

$$= \frac{5 \pm \sqrt{25 + 8}}{2}$$

$$= \frac{5 \pm \sqrt{33}}{2}$$

$$= \frac{5 \pm 5,7445\dots}{2}$$

$$\therefore x = \frac{5 + 5,7445\dots}{2} \quad \text{or / of} \quad x = \frac{5 - 5,7445\dots}{2}$$

$\approx 5,3722\dots$

$\approx -0,3722\dots$

$\approx 5,37$

$\approx -0,37$

1.1.3 $\sqrt{x - 3} - 4 = 5$

$\sqrt{x - 3} = 9$

$(\sqrt{x - 3})^2 = 9^2$

$x - 3 = 81$

$\therefore x = 84$

1.1.4 $2x^2 - 7x - 4 \geq 0$

$(2x + 1)(x - 4) \geq 0$

$\therefore x \leq -\frac{1}{2}$ or/of $x \geq 4$



1.2 $x = 2y + 1$ -----(1)

$x^2 - 2y + 3xy = 6$ -----(2)

(1) In (2): $(2y + 1)^2 - 2y + 3(2y + 1)y = 6$

$4y^2 + 4y + 1 - 2y + 6y^2 + 3y = 6$

$10y^2 + 5y - 5 = 0$

$2y^2 + y - 1 = 0$

$\therefore (2y - 1)(y + 1) = 0$

[+5]:

$\therefore y = \frac{1}{2}$ or/of $y = -1$ -----(3)

(3) In (1): $y = \frac{1}{2} : x = 2\left(\frac{1}{2}\right) + 1 = 1 + 1 = 2$

$y = -1 : x = 2(-1) + 1 = -2 + 1 = -1$

$$2.1 \quad 3^{x+1} - 3^{x-1}$$

$$= 3^x \cdot 3^1 - 3^x \cdot 3^{-1}$$

$$= 3^x(3^1 - 3^{-1})$$

$$= 3^x \left(\frac{3-1}{3} \right)$$

$$= \frac{2 \cdot 3^x}{3}$$

$$= \frac{2}{3} \cdot 3^x$$

$$= \frac{8}{3} \cdot 3$$

$$= 8$$

$$= 4 \cdot 2$$

$$= 3 \cdot 2$$

$$= 3 \cdot 1$$

$$= 3$$

$$= 3$$

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$$= (x-2)(x+4)$$

$$= (x+4) \text{ cm}$$

$$\therefore FE \text{ is a square / ABEF is 'n vierkant}$$

$$ED = FD = FE = (x+4) - (x-2) = 4 + 4 - x + 2 = 8 \text{ cm}$$

QUESTION 4 / VRAAG 4

$$4.1 \quad \begin{matrix} 7 & 0 & 9 & 20 \\ -7 & 0 & 9 & 20 \end{matrix}$$

$$T_1 = ar^2 + br + c = 4a + 2b + c$$

$$T_2 = a(2^2) + b(2) + c = 4a + 2b + c$$

$$T_3 = a(3^2) + b(3) + c = 9a + 3b + c$$

$$2a = 2 \quad T_2 - T_1 = 3a + b \quad 9 + b + c = T_1$$

$$\therefore a = 1 \quad T_3 - T_2 = 3a + b \quad 1 + 4 + c = T_2$$

$$\therefore b = 7 - 3 \quad \therefore c = -7 - 5$$

$$\therefore b = 4 \quad \therefore c = -12$$

$$T_n = n^2 + 4n - 12$$

$$4.2 \quad \therefore 128 = n^2 + 4n - 12$$

$$\therefore 0 = n^2 + 4n - 140$$

$$\therefore 0 = (n-10)(n+14)$$

$$\therefore n = 10 \text{ or } n = -14 \text{ --- N.N.V.T}$$

$$\text{Term } 10 \text{ is equal to } 128 / \text{ is gelyk } 128$$

$$4.3 \quad T_n = an + c$$

$$\therefore T_n = 2n + c$$

$$T_1 = 2(1) + c$$

$$\therefore T_1 = 2 + c$$

$$\therefore c = 5$$

$$\therefore T_n = 2n + 5$$

$$T_1 = 2n + 5$$

$$\therefore 569 = 2n + 5$$

$$\therefore 2n = 564$$

$$\therefore n = 282$$

$$\text{Between term } 282 \text{ and } 286 / \text{ tussen term } 282 \text{ en } 286$$

$$1-2: \quad \therefore n = 287$$

$$\therefore n = 287$$

$$1-3: x = 2 \quad \therefore \left(\frac{2}{3}, 0 \right)$$

$$\therefore x = -\frac{2}{3} \quad \therefore \left(-\frac{2}{3}, 0 \right)$$

$$\text{y-intercept / y-afsnit: } x = 0$$

$$2 \text{ row mei } 2 \text{ vierkante in } 2 \text{ yre mei } 2 \text{ vierkante}$$

$$3 \text{ yre mei } 2 \text{ vierkante in } 3 \text{ yre mei } 2 \text{ vierkante}$$

$$3 \cdot 2 + 2 \cdot 3$$

$$\therefore 4 \cdot 3 + 3 \cdot 4$$

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$$\therefore 4 \cdot 3 + 3 \cdot 4$$

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

$$b = 3 = 3 \cdot 2^2 \cdot 1^{-1} = 6$$

$$h(x) = 3 \cdot 2^x \cdot 1^{-x} - 6$$

$$h(x) = 3 \cdot 2^x - 6 = 0$$

$$\therefore 3 \cdot 2^x - 6 = 0$$

$$\therefore 2^x - 1 = 2$$

$$\therefore 2^x - 1 = 2^1$$

$$\therefore x - 1 = 1$$

$$\therefore x = 2$$

$$\therefore T(2; 0)$$

$$\text{y-intercept / y-waarde: } x = 0$$

$$\therefore y = 3 \cdot 2^0 - 6 = 3 - 6 = -3$$

$$\therefore y = -3$$

$$\therefore y = -3$$

$$\therefore y = -4$$

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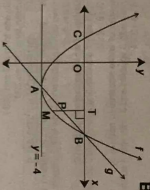
$$\therefore y = -4$$

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$$f(x) = x^2 + bx + c$$

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$$\therefore f(x) = x^2 + bx + c$$

For non-real roots / Virniet-reële wortels: $\Delta < 0$

$$\therefore 4p < 4$$

$$\therefore p < 1$$

$$\therefore p < 1$$

$$\therefore p < 1$$

$$\therefore p < 1$$

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9.3 Ende van jaar 4 / Einde van jaar 4

$$A = P(1+i)^n$$

$$= 80\,000 \left(1 + \frac{0,075}{4}\right)^{4 \times 4}$$

$$= 107\,689,1465$$

Ende van jaar 7 / Einde van jaar 7

$$A = P(1+i)^n$$

$$= 107\,689,1465 \left(1 + \frac{0,092}{12}\right)^{3 \times 12}$$

$$= 141\,768,6042$$

$$= 141\,768,60$$

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9.4.2

$$A = P(1+i)^n$$

$$= 30\,000 \left(1 + \frac{0,065}{12}\right)^{8 \times 12}$$

$$= 50\,390,06907$$

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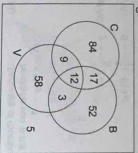
$$= 50\,390,07$$

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10.1 5

10.2 $P(C \text{ and } \textit{en} B) = \frac{17 + 12}{240} \neq 0$

Thus events B and C are not mutually exclusive/
Daarom is gebeurtenisse B en C nie onderling
uitsluitend nie

10.3.1 $P(\textit{only}/\textit{steps} V) = \frac{58}{240} = \frac{29}{120}$

10.3.2 $P(B \text{ and } \textit{en} C) = \frac{17 + 12}{240} = \frac{29}{240}$

10.3.3 $P(\textit{not} / \textit{nie} C) = 1 - P(C)$
 $= 1 - \frac{84 + 17 + 12 + 9}{240}$
 $= 1 - \frac{122}{240}$
 $= \frac{118}{240} = \frac{59}{120}$

10.3.4 $P(B \text{ or } \textit{of} V)$

$$= \frac{17 + 52 + 12 + 3 + 58 + 9}{240}$$

$$= \frac{151}{240}$$

QUESTION 11 / VRAAG 11

$P(A \text{ or } \textit{of} B) = P(A) + P(B) - P(A \text{ and } \textit{en} B)$
 $\therefore 0,428 = 0,12 + 0,35 - P(A \text{ and } \textit{en} B)$

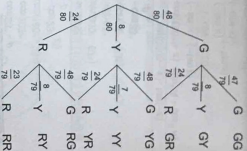
$\therefore P(A \text{ and } \textit{en} B) = 0,12 + 0,35 - 0,428$
 $= 0,042$
 $P(A) \times P(B) = 0,12 \times 0,35$
 $= 0,042$

$\therefore P(A \text{ and } \textit{en} B) = P(A) \times P(B)$
 Thus A and B are independent events /
 Daarom is gebeurtenisse A en B onafhanklik

QUESTION 12 / VRAAG 12

12.1 G: Green / Groen: $\frac{3}{5} \times 80 = 48$

Y: Yellow / Geel: 10% of / van 80 = 8
 R: Red / Rooi : 80 - 48 - 8 = 24



12.3 $P(\textit{green and yellow}) / P(\textit{groen en geel})$
 $= P(G \text{ and } \textit{en} Y) + P(Y \text{ and } \textit{en} G)$
 $= \frac{48}{80} \times \frac{8}{79} + \frac{8}{80} \times \frac{48}{79}$
 $= \frac{80 \times 79 + 80 \times 79}{80 \times 79}$
 $= \frac{24}{395} + \frac{24}{395}$
 $= \frac{48}{395}$

DBE / DBO

2014

B2

Paper 2 / Vraestel 2

QUESTION 1 / VRAAG 1

1.1.1 $ICR / IKV = Q_3 - Q_1$
 $= 30 - 20$
 $= 10$

1.1.2 The data is skewed to the left or negatively skewed. / Die data is skeef na links of negatief skeef.

1.1.3 Range / Omvang
 $= \text{max} / \text{maks} - \text{min}$
 $= 35 - 6$
 $= 29$

1.1.4 The median for Supermarket A is 26 deliveries per day, which means that Supermarket A received 26 or more deliveries per day for 7 days (50% of 14 days). Thus Supermarket A received more than 25 deliveries for more than 7 days.
 The median for Supermarket B is 20 deliveries per day, which means that Supermarket B received 20 or less deliveries for 7 days. Thus