

BOARD OF INTERMEDIATE & SECONDARY EDUCATION, SAHIVAL

Boards

SUBJECT: ~~Maths~~ Maths EXAM HSSC and A 2022 CLASS: 9th (2)

GROUP: Commerce DATE: _____

(GENERAL INSTRUCTIONS FOR MARKING KEY)

Section C

Q4(a)

$$\begin{aligned} \text{Total Income} &= X \\ \text{Spend Amount} &= 971 \\ \text{Save} &= 600 \\ \text{Total Income} - \text{Spend} &= 600 \\ X - 971 &= 600 \\ X &= 0.971X + 600 \\ 0.03X &= 600 \\ X &= \frac{600}{0.03} \\ X &= 20000 \end{aligned}$$

b) Interest rate ?

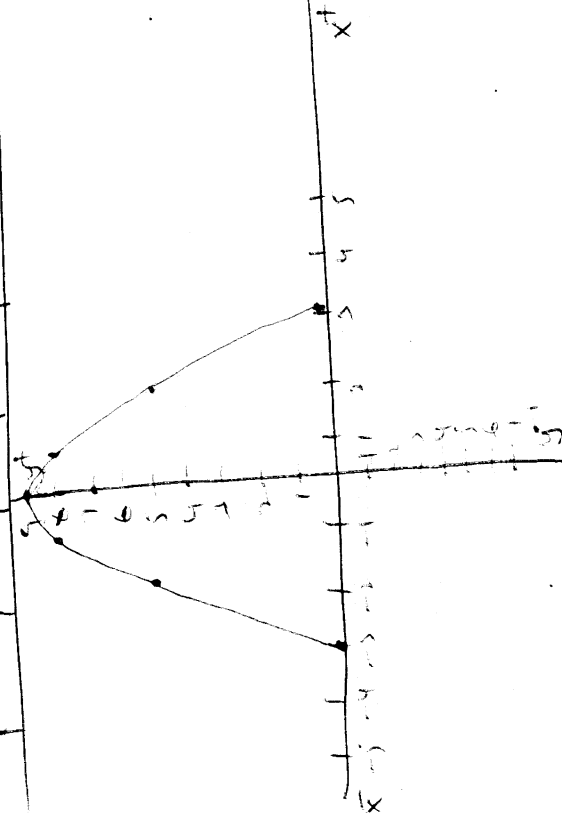
$$\begin{aligned} \text{Principal} &= 5000 \\ \text{Compound Amount} &= 10000 \\ \text{Time} &= 5 \text{ Year} \\ S &= P(1+i)^n \\ 10000 &= 5000(1+i)^5 \\ \frac{10000}{5000} &= (1+i)^5 \\ 2 &= (1+i)^5 \\ 1.1487 &= 1+i \\ 1.1487 - 1 &= i \\ 0.1487 &= i \\ 0.1487 \times 100 &= i \\ i &= 15\% \text{ Approx} \end{aligned}$$

Q5(a)

$$\begin{aligned} X^2 - 8X + 15 &= 0 \\ X^2 - 8X + 15 &= 0 \\ \text{Coefficient of } X &= -\frac{8}{2} = -4 \\ X^2 - 8X + (-4)^2 &= -15 + (-4)^2 \\ (X-4)^2 &= -15 + 16 \\ (X-4)^2 &= 1 \\ \text{Square Root} \\ X-4 &= \pm 1 \\ X &= 4 \pm 1 \\ X &= 4-1 \quad X=4+1 \\ X &= 3 \quad X=5 \end{aligned}$$

Q5(b) $y = 4 - x^2$

X	-3	-2	-1	0	1	2	3
y	0	5	8	9	8	5	0



PREPARED BY

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RE-CHECKED BY _____ تم نے درج بالا سوال پرچہ (انشائیہ + سرورقشی) اور ہدایات کے حوالے سے مکمل طور پر تصدیق کر لی ہے۔ کسی قسم کی کوئی غلطی نہ ہے۔

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