



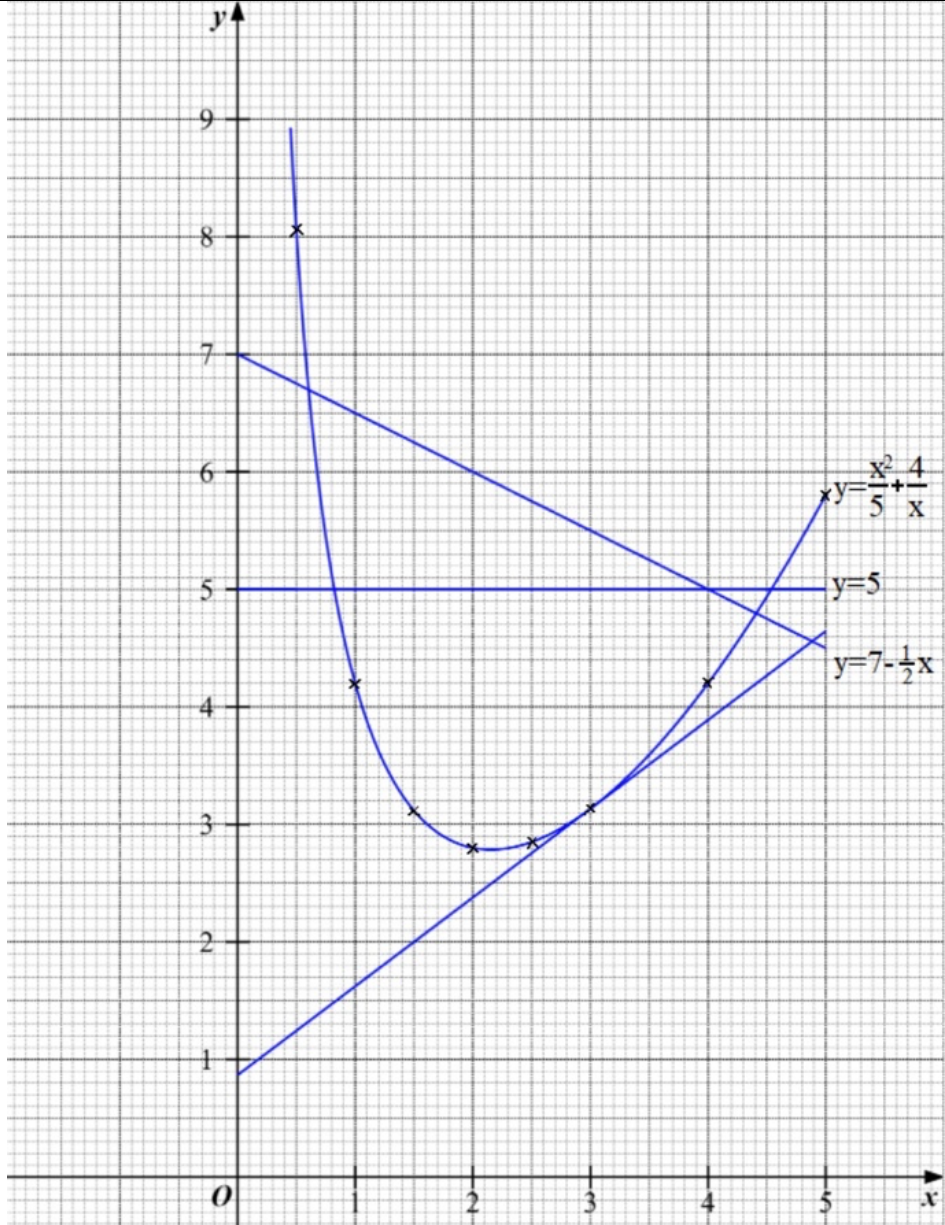
**END OF YEAR MOCK EXAMINATION
SECONDARY 3
BASED ON 2024 SEAB SYLLABUS**

MATHEMATICS
Paper 1

4049/01
September 2024
75 minutes

Answer Key

1	a) $d = \pm \sqrt{\frac{3c+5}{c-1}}$ b) $\frac{x+1}{(x-2)^2}$ c) $x = 1, y = 3$ d) $x = \frac{9}{4}$ or $x = 1$
2	a) 1.03 km b) 2.16 km ² c) Do not lie on the circumference
3	a) 66° b) 33° d) 39°

<p>4</p>	 <p>ab) 0.721 (± 0.1)</p> <p>cii) $x = 0.6$ or $x = 4.4$ (± 0.05)</p> <p>ciii) $2x^3 + 5x^2 - 70x + 40 = 0$</p> <p>d) $x = 0.8$ or $x = 4.55$</p>
<p>5</p>	<p>aii) 146 cm^2</p> <p>b) 774 cm^2</p>