

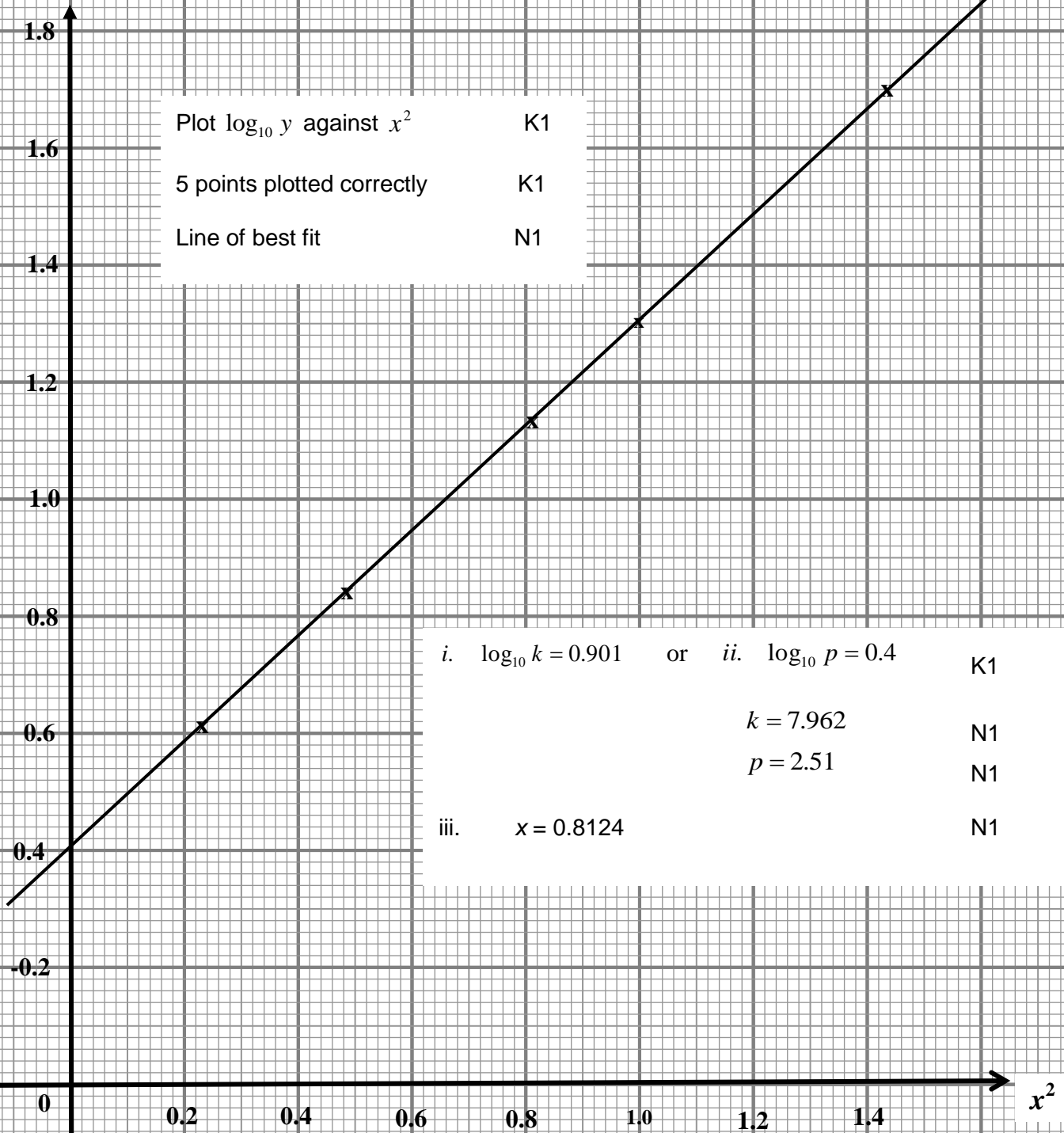
No.7(a)

x^2	0.25	0.49	0.81	1.0	1.44
$\log_{10} y$	0.602	0.845	1.114	1.301	1.699

N1
N1

$\log_{10} y$

$$\log_{10} y = \log_{10} p + x^2 \log_{10} k \quad \text{P1}$$



Plot $\log_{10} y$ against x^2 K1

5 points plotted correctly K1

Line of best fit N1

i. $\log_{10} k = 0.901$ or ii. $\log_{10} p = 0.4$ K1

$k = 7.962$ N1

$p = 2.51$ N1

iii. $x = 0.8124$ N1