

JAWAPAN KERTAS 2 SET 6

1. $x = -6, y = -\frac{2}{3}$; $x = 5, y = 3$

2.

x	1	2	3	4	5	6
y	4.68	7.12	11.04	16.53	25.56	40.01
$\log_{10} y$	0.67	0.85	1.04	1.22	1.41	1.60

Best fit - 1 markah
 Skala betul - 1 markah
 Titik di plot dengan baik - 1 m

$y = pk^x$
 $\log y = \log p + x \log k$

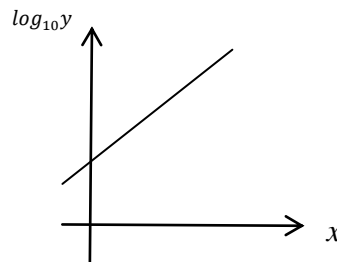
(i) $\log p = 0.48$

$p = 3.02$

(ii) $\log k = \frac{1.04 - 0.67}{3 - 1}$

$= 0.185$

$k = 1.5311$



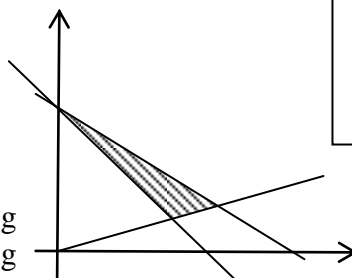
3. (a) (i) $x = 125$ (ii) $y = 4.50$ (iii) $z = 2.50$

(b) Indeks gubahan = 126.8

(c) RM63.40

(d) 145.82

4. I: $x + y \geq 50$
 II: $3y \geq x$
 III: $3x + 4y \leq 200$



1 markah
 - 1 garis betul
 1 markah
 - semua garis betul
 1 markah
 - rantau

(i) bilangan maksimum = 33 orang
 bilangan minimum = 25 orang

(ii) $90(37) + 120(13) = \text{RM}4\ 890$

5. (a) 22.5 (b) C (5, 4) (c) $4x^2 + 4y^2 - 95x - 43y + 548 = 0$

6. (a) (i) $7a - 7b$ (ii) $\frac{7}{2}a - \frac{7}{2}b$ (iii) $\frac{9}{2}a + \frac{1}{2}b$

(b) $(8 + 2k)a - 4b$

(c) $k = -22$