

**JAWAPAN KERTAS 2 SET 4**

1.  $x = 1.443, y = -1.886$  ;  $x = -0.693, y = 2.386$

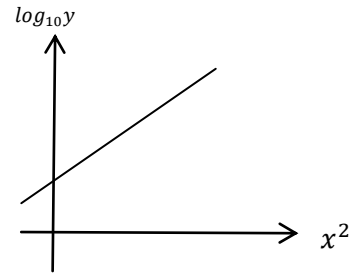
2. (a)

$x^2$	1	4	9	16	25	36
$\log_{10} y$	0.17	0.24	0.34	0.48	0.67	0.89

(b) (i)  $\log_{10} y = (\log_{10} k)x^2 + \log_{10} p$

$p = 1.413$       $k = 1.049$

(ii) 3.673 ( accept 3.631 – 3.715 )



3. (a) (i) RM8

(ii) 108.3

(b) (i)  $x = 105$

(ii) RM 30

4. (a) I.  $x + y \geq 35$

II.  $x \leq 19$

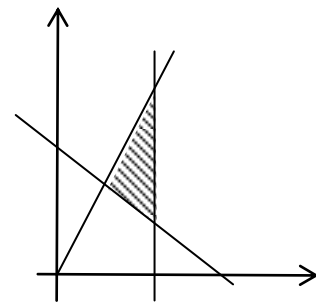
III.  $y \leq 2x$

(b) Graf

(c) (i)  $15 \leq x \leq 19$

(ii)  $k_{max} = 20x + 25y$       $(19, 16)$

$= \text{RM } 780$



5. (a) R (12, -1)

(b)  $y = -3x + 35$

6. (a) (i)  $-3x + 6y$      (ii)  $2x + 2y$

(b)  $h = \frac{6}{7}$  ,  $k = \frac{3}{7}$