

**JAWAPAN KERTAS 1 SET 4**

1.  $\{ (1,-1), (4,2), (4,-2), (9,-3), (16,4) \}$
2.  $a = 2, b = 11$
3. (a)  $g^{-1}(x) = \frac{x-5}{6}, g^{-1}(3) = -\frac{1}{3}$       (b)  $36x^2 + 42x + 14$
4.  $k > 7$
5.  $4x^2 - 1 = 0$
6.  $-\frac{1}{2} \leq n \leq 1$
7. (a)  $a > 0$       (b)  $p = -4$       (c)  $q = -3$
8.  $h = 5, k = \frac{5}{4}$
9.  $p = 5, p = -10$
10.  $x = 3$
11.  $x = 4$
12. (a) 11.2      (b) 4.2514
13. (a) 0.7 rad      (b) 119.84
14.  $r = \frac{3}{5}$
15.  $p = 2, r = \frac{1}{3}$
16. 935
17. (a)  $\log_{10} y = \frac{1}{2} \log_{10} x + 2$       (b)  $y = 100 \sqrt{x}$       (c)  $x = 0.64$
18.  $10\mathbf{i} + 6\mathbf{j}$
19.  $8\mathbf{i} - \mathbf{j}$
20. (a) 40320      (b) 4320
21. (a)  $\frac{2}{5}$       (b)  $\frac{1}{5}$