

**JAWAPAN KERTAS 1 SET 6**

1. (a) 5 (b)  $f(x) = 3x$
2. (a)  $f(x) = \frac{5-3x}{2}$  (b)  $x = 7$
3.  $g(x) = x^2 + 1$ ,  $fg(x) = x^2 - 1$
4. 7, 7 atau -7, -7
5. 9
6. (a)  $r = 2$  (b)  $x = 1$  (c) (2, -1)
7.  $-3 < p < 5$
8. (a) (3, 5) (b) S (4, 7)
9.  $t = -2$
10.  $y = \frac{1}{2}$
11.  $x = 3$
12. (a) 8 (b) mean = -1, variance = 3.5
13.  $r = 7.809 \text{ cm}$
14. (a) 3 (b) 136
15.  $n = 7$
16.  $n = 10$
17.  $p = 12, q = -3$
18. (a) 5 unit (b) -4
19.  $t = 7, -5$
20. (a) 1960 (b)  $1 \times {}^7C_4 \times 1 \times {}^6C_3 = 700$
21. (a)  $\frac{2}{15}$  (b)  $\frac{7}{15}$