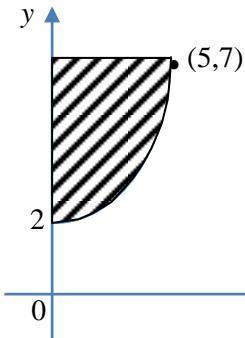


	(a) $y = \sqrt{a}$	B1	
6	(b) -8	2	3
	$\log_{\sqrt{y}} 1 - \log_{\sqrt{y}} a^2$	B1	
7	$x = 4$ $(x-4)(x+1) = 0$ $5x - x^2 = (7x-4) - 5x$	3 B2 B1	3
8	(a) $k = 0.0045$ (b) $\frac{27}{11}$ $2 + \frac{0.45}{1 - \frac{1}{100}}$ $r = 0.01$	B1 3 B2 B1	4
9	(a) $\log_3 y = 5p \log_3 x - \log_3 q$ (b) $p = \frac{2}{5}$ dan $q = 81$ $p = \frac{2}{5}$ atau $q = 81$ $5p = \frac{8-0}{6-2}$ atau $\log_3 q = 4$	B1 3 B2 B1	4

	$17.6\pi \text{ cm}^3$	3	
10	$176\pi \times (0.1)$	B2	3
	$2\pi(4)(22)$	B1	
	$a = 7 \text{ and } b = -4$	4	
11	$a = 7 \text{ or } b = -4$	B3	
	$2a + 3 - a = 10$ (solve the equations) B2		4
	$2a + b = 10 \text{ or } 3 - a = b$	B1	
	35	4	
12	$8 - [3^2 - 6^2]$	B3	
	$\int_2^6 g(x) - \left[\frac{2x^2}{2} \right]_6^3$	B2	4
	$\int_2^3 g(x) dx + \int_3^6 g(x) dx - \int_6^3 2x dx$	B1	
13	(a)	B1	
			
	(b) 35	2	3
	5×7	B1	

	(4, 2)	4	
14	$x - 2 = -x + 6$ (menyelesaikan persamaan) $y = -x + 6$ (persamaan PR) atau $y = x - 2$ (persamaan QS)	B3 B2	4
	$m_{PR} = \frac{5-1}{1-5} = -1$ or $m_{QS} = 1$	B1	
15	(a) $\begin{pmatrix} m-4 \\ -5 \end{pmatrix}$ $\overrightarrow{UV} = -\overrightarrow{OU} + \overrightarrow{OV}$ or $\begin{pmatrix} -4 \\ -7 \end{pmatrix} + \begin{pmatrix} m \\ 2 \end{pmatrix}$ (b) $m = 4$ $-4 + m = 0$	2 B1 2 B1	4
16	$k = 4$ $1^2 + (4-k)^2 = 1$ $\sqrt{1^2 + (4-k)^2}$	3 B2 B1	3
17	$k = 12.31^\circ, 77.69^\circ, 192.31^\circ, 257.69^\circ$ $2k = 24.62^\circ, 155.38^\circ, 384.62^\circ, 515.38^\circ$ $2(\sin 2k) = \frac{3}{3.6}$ $\cos y = \frac{3}{3.6}$	4 B3 B2 B1	4

	234	3	
18	$L = \frac{1}{2}(30)^2(0.52)$	B2	3
	$15.6 = j(0.52)$	B1	
19	(a) 54 (13+5)3 (b) 6	2 B1 B1	3
20	$x = 20 - 4y^4$ $2y^2 = \sqrt{\frac{100}{5}} - (\sqrt{x})^2$, using formula	2 B1	2
21	(a) $5! = 120$ (b) 72 $2 \times 4!$	B1 2 B1	3
22	10 $\frac{n!}{(n-2)!2!} = 45$	2 B1	2

	(a) $\frac{1}{7}$	B1	
23	(b) $\frac{3}{17}$	2	3
	$\frac{15}{35} \times \frac{14}{34}$	B1	
	(a) $\frac{1}{4} - 2k^2$	2	
24	$4k^2 + t + \frac{1}{2} + t = 1$	B1	3
	(b) $\frac{7}{8}$	B1	
	(a) 0.02275	B1	
	(b) 51.78	3	
25	$\frac{60-x}{5} = 1.645$	B2	4
	1.645 dilihat	B1	