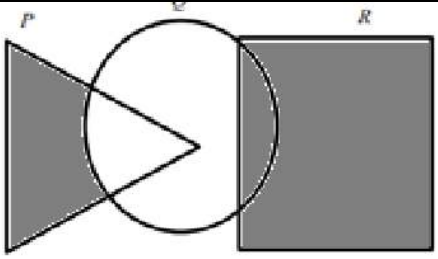
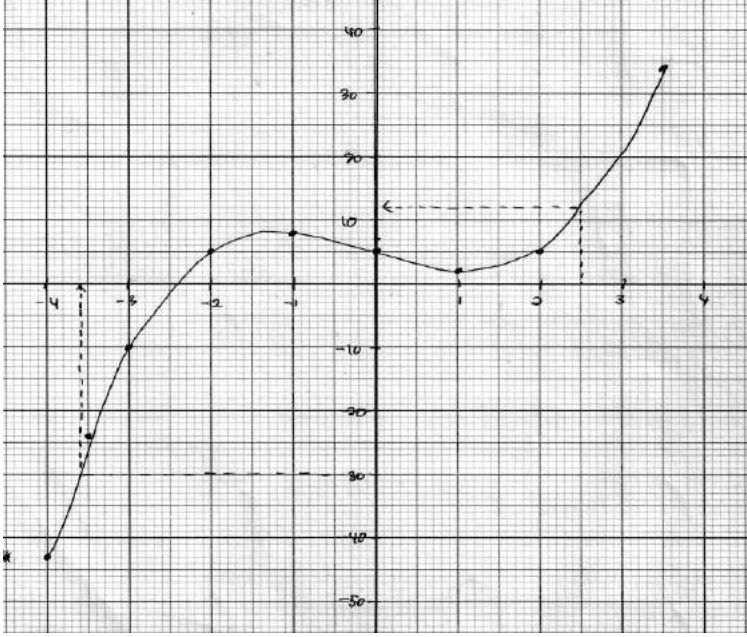
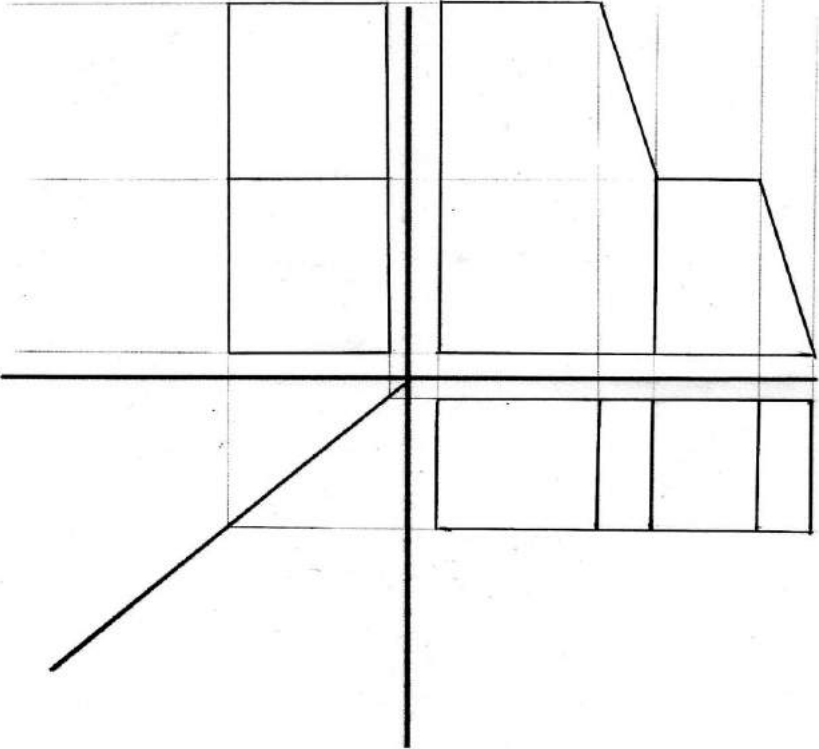


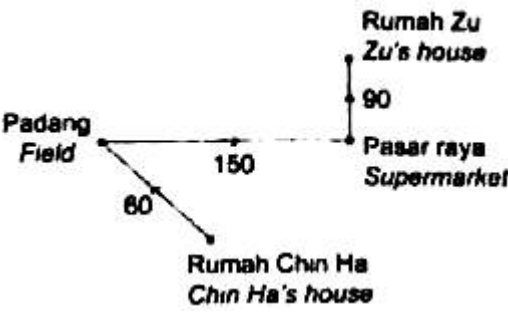
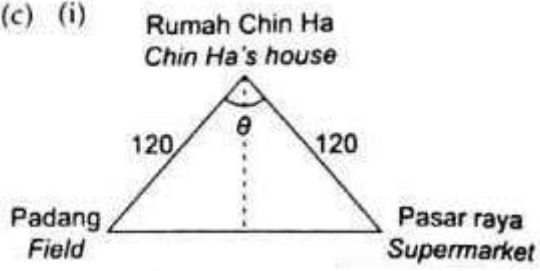
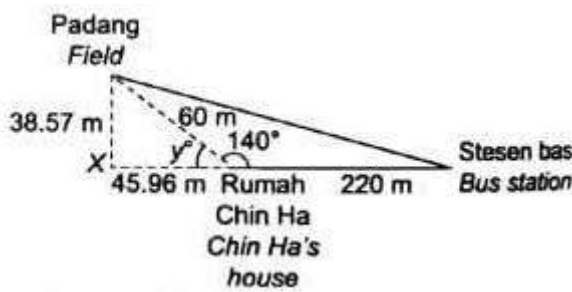
SOALAN	PERATURAN PEMARKAHAN	MARKAH
1	a) ( X U Z ) ‘	P1
	 <p>b)</p>	N2
2	<p>Isipadu 3 kon = <math>113.14 \text{ cm}^3</math></p> <p><math>J^3 = 27</math></p> <p><math>J = 3 \text{ cm}</math></p>	<p>K2</p> <p>K1</p> <p>N1</p>
3	$\frac{1}{2} \times \frac{22}{7} \times 8^2 + \frac{125}{360} \times \frac{22}{7} \times 12^2 - \frac{55}{360} \times \frac{22}{7} \times 8^2$ <p>226.98 <math>\text{cm}^2</math></p>	<p>K2</p> <p>N1</p>
4	a) $m = \frac{-3}{2}$	K1
	$y = \frac{-3}{2}x - 8$ b) $0 = \frac{-3}{2}x - 8$ $x = \frac{-16}{3}$	<p>N1</p> <p>K1</p> <p>N1</p>
5	<p><math>(a - 8)(a + 3) = 60</math></p> <p><math>(a - 12)(a + 7) = 0</math></p> <p><math>a = 12</math></p> <p>perimeter = 64</p>	<p>K1</p> <p>K1</p> <p>N1</p> <p>N1</p>
6	a) Benar	N1
	<p>b) Jika bilangan subset bagi set P ialah 8 maka <math>n(P) = 3</math></p> <p>Jika <math>n(P) = 3</math> maka bilangan subset bagi set P ialah 8</p> <p>c) <math>(10 - 2) \times 180</math></p> <p>1440</p>	<p>P1</p> <p>P1</p> <p>K1</p> <p>N1</p>
7	$46.5 - \frac{1}{2} \times 60 \times 0.3 - 60 \times 0.4 = 13.5$	K1
	$13.5 = \frac{1}{2} \times (60 + v) \times 0.2$ <p><math>v = 75</math></p>	<p>K1</p> <p>N1</p>

<p><b>8</b></p>	<p>a)</p> <table border="1" data-bbox="432 230 1209 443"> <thead> <tr> <th>Tempat /Baucer</th> <th>Pulau Pinang (P)</th> <th>Cameron Highland (C)</th> <th>Langkawi (L)</th> </tr> </thead> <tbody> <tr> <td>50</td> <td>( P , 50 )</td> <td></td> <td></td> </tr> <tr> <td>80</td> <td></td> <td>( C , 80 )</td> <td></td> </tr> <tr> <td>100</td> <td></td> <td></td> <td>( L , 100 )</td> </tr> <tr> <td>150</td> <td>( P , 150 )</td> <td>( C , 150 )</td> <td></td> </tr> </tbody> </table> <p>b) ( L , 100 )</p> $\frac{1}{12}$ <p>c) (P,50), (P,80), (P,100), (P,150), (L,50), (L,80), (L,100), (L,150), (C,150)</p> $\frac{9}{12} @ \frac{3}{4}$	Tempat /Baucer	Pulau Pinang (P)	Cameron Highland (C)	Langkawi (L)	50	( P , 50 )			80		( C , 80 )		100			( L , 100 )	150	( P , 150 )	( C , 150 )		<p>P1</p> <p>N1</p> <p>P1</p> <p>N1</p> <p>P1</p> <p>N1</p> <p>N2</p>
Tempat /Baucer	Pulau Pinang (P)	Cameron Highland (C)	Langkawi (L)																			
50	( P , 50 )																					
80		( C , 80 )																				
100			( L , 100 )																			
150	( P , 150 )	( C , 150 )																				
<p><b>9</b></p>	$2b + 4k = 200$ $4b + 2k = 160$ $\begin{pmatrix} 2 & 4 \\ 4 & 2 \end{pmatrix} \begin{pmatrix} b \\ k \end{pmatrix} = \begin{pmatrix} 200 \\ 160 \end{pmatrix}$ $\begin{pmatrix} b \\ k \end{pmatrix} = \frac{1}{-12} \begin{pmatrix} -240 \\ -480 \end{pmatrix}$ $\begin{pmatrix} b \\ k \end{pmatrix} = \begin{pmatrix} 20 \\ 40 \end{pmatrix}$ $85 - 40 = \text{RM}45$	<p>K2</p> <p>K1</p> <p>K1</p> <p>N1</p>																				
<p><b>10</b></p>	<p>Syarikat insurans</p> $\frac{80}{100} \times 34000$ $= \text{RM}27\ 200$ <p>Puan Nurul</p> $\frac{20}{100} \times 34000 + 150$ $= \text{RM}6950$	<p>K1</p> <p>N1</p> <p>K1</p> <p>N1</p>																				
<p><b>11</b></p>	<p>a)</p> <table border="1" data-bbox="323 1630 831 1709"> <tbody> <tr> <td>-3</td> <td>0</td> <td>1</td> </tr> <tr> <td>-10</td> <td>5</td> <td>2</td> </tr> </tbody> </table>	-3	0	1	-10	5	2	<p>N3</p>														
-3	0	1																				
-10	5	2																				

	<p>b) </p> <p>c) i) <math>11 \leq y \leq 13</math>  ii) <math>-3.7 \leq x \leq -3.5</math></p>	<p>K3  N1  N1  N1</p>
<p>12</p>		<p>N3  N3  N3</p>

<p><b>13</b></p>	<p>a) <math>h = 1200</math> <math>k = 800</math> <math>m = 400</math> Alirantunaipositif</p> <p>b) S – Membelikoputerriba M – Alirantunaipositifsekurang-kurangnya RM 200 A – Ahmad mempunyaialirantunaipositif RM 400 R –Bolehmenabung RM200 setiambutanselama 12 bulan T – Membeli computer ribadalamsetahun</p>	<p>N3 P1</p> <p>P1 N1 P1 N1 P1</p>																																
<p><b>14</b></p>	<p>a) i) Pantulan pada garis <math>y = 6</math></p> <p>ii) Pembesaran pada pusatpembesaran E (1,5) denganfaktorskala<math>\frac{1}{2}</math></p> <p>b) <math>(\frac{1}{2})^2 \times 210</math> 52.5 210 – 52.5 157.5</p>	<p>N2</p> <p>N3</p> <p>K1</p> <p>K1 N1</p>																																
<p><b>15</b></p>	<table border="1" data-bbox="347 891 1120 1317"> <thead> <tr> <th>Marks</th> <th>Frequency</th> <th>Cumulative Frequency</th> <th>Upper Boundary</th> </tr> </thead> <tbody> <tr> <td>30 – 39</td> <td>0</td> <td>0</td> <td>39.5</td> </tr> <tr> <td>40 – 49</td> <td>2</td> <td>2</td> <td>49.5</td> </tr> <tr> <td>50 – 59</td> <td>5</td> <td>7</td> <td>59.5</td> </tr> <tr> <td>60 – 69</td> <td>10</td> <td>17</td> <td>69.5</td> </tr> <tr> <td>70 – 79</td> <td>12</td> <td>29</td> <td>79.5</td> </tr> <tr> <td>80 – 89</td> <td>8</td> <td>37</td> <td>89.5</td> </tr> <tr> <td>90 – 99</td> <td>3</td> <td>40</td> <td>99.5</td> </tr> </tbody> </table> <p>a)</p> <p>b) <math>\sqrt{\frac{210930}{40} - 71.5^2}</math> <math>= \sqrt{161}</math> <math>= 12.69</math></p>	Marks	Frequency	Cumulative Frequency	Upper Boundary	30 – 39	0	0	39.5	40 – 49	2	2	49.5	50 – 59	5	7	59.5	60 – 69	10	17	69.5	70 – 79	12	29	79.5	80 – 89	8	37	89.5	90 – 99	3	40	99.5	<p>N3</p> <p>K2</p> <p>N1</p>
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90 – 99	3	40	99.5																															

	<p>c)</p>	<p>P1 K2 N1</p>
<p><b>16</b></p>	<p>a) i) <math>103\,500 - 300 - 21\,620</math> 81 580</p> <p>ii) <math>4\,600 + 2\,431.80</math> <math>7\,031.80 - 750</math> 6 281.80</p> <p>iii) <math>480 \times 12 = 5\,760</math> Ya. Bayaran PCB tidak mencukupi dan Encik Khalid perlu membayar lagi sebanyak RM 521.80</p> <p>b) <math>76 \times 27 \times \text{RM}0.25</math> RM 513</p> <p>c) <math>x + 2y \leq 80</math> <math>y \leq 2x</math></p> <p>d) <math>P : L = 4 : 3</math> <math>L = \frac{3}{4}P</math> <math>2P + 2L = 112</math> <math>2P + 2\left(\frac{3}{4}P\right) = 112</math></p>	<p>N1 K1 K1 N1 N2 N1 P1 P1 K1 K1</p>

	<p> <math>P = 32</math>  <math>L = 24</math>  <math>(32 \times 24) - (1/2 \times 32 \times 24)</math>  <math>384\text{cm}^2</math> </p>	<p>           N1            N1            K1            N1         </p>
17	<p>           a) i) 150 m            ii) <math>\frac{150}{3}</math>            50m         </p>  <p>           b) i)            ii) 300m         </p> <p>           (c) (i)         </p>  <p> <math>\sin x = \frac{75}{120}</math>  <math>\Theta = 38.68 \times 2</math>  <math>\Theta = 77.36</math> </p> <p>           ii) <math>\cos^{-1}(0.766) = 40^\circ</math>  <math>y = 140^\circ</math> </p>  <p>           Jarak X dengan padang = <math>60 \sin 40^\circ</math>  <math>= 38.57\text{m}</math> </p> <p>           Jarak X dengan Chin Ha = <math>60 \cos 40^\circ</math>  <math>= 45.96\text{m}</math> </p> <p>           Jarak = <math>\sqrt{38.57^2 - (45.96 + 220)^2}</math>  <math>= 268.74\text{m}</math> </p>	<p>           N1            K1            N1         </p> <p>           K2            N1         </p> <p>           N1         </p> <p>           K1            K1            N1         </p> <p>           N1         </p> <p>           K1            K1            K1            N1         </p>