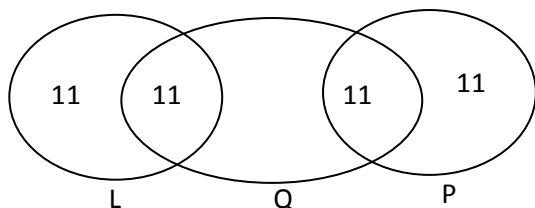


**SKEMA SET3 K2**

**BAHAGIAN A**

- 1
- |                |   |
|----------------|---|
| $3y = 12$      | 1 |
| $y = 4$        | 1 |
| $3y + 2x = 16$ | 1 |
| $x = 2$        | 1 |

- 2 Pengawas perempuan = 7 orang @ pengawas lelaki = 3 1



G. Venn 1

Unsur  
betul 1

- 3 a)  $x^2 + (x + 7)^2 = (3x - 2)^2$  1  
 $7x^2 - 26x - 45 = 0$  1

b)  $(7x + 9)(x - 5) = 0$  1

13 1

- 4 a)  $\angle RSQ @ \angle SQR$  1

b)  $\tan \angle RSQ = \frac{12}{9}$  2

$53.13^\circ @ 53^\circ 8'$  1

5 
$$\left[ \frac{22}{7} \times \left( \frac{10.5}{2} \right)^2 \times 12 \right] - \left[ \frac{1}{3} \times \frac{22}{7} \times \left( \frac{7}{2} \right)^2 \times 8 \right]$$
 1, 1, 1

936.83 1

- 6 a) i) Palsu ii) Benar 1, 1

b) Implikasi 1 : Jika  $\frac{p}{q}$  ialah pecahan wajar maka  $p < q$  1

Implikasi 2 : Jika  $p < q$  maka  $\frac{p}{q}$  ialah pecahan wajar 1

c) Premis 2 :  $3y + 13 \neq 4$  1

- 7 a)  $y = -\frac{3}{2}x + 9$  1

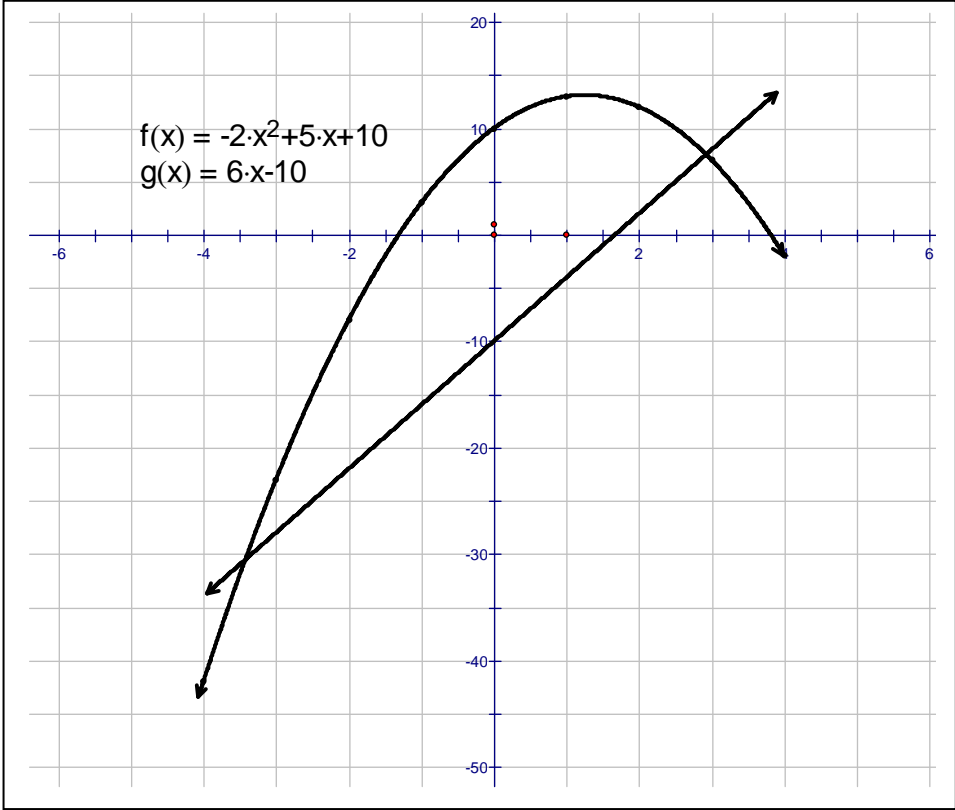
$k = -\frac{3}{2}$  1

b) Persamaan RU =  $-\frac{2}{3}x + 6$  1

$0 = -\frac{2}{3}x + 6$  1

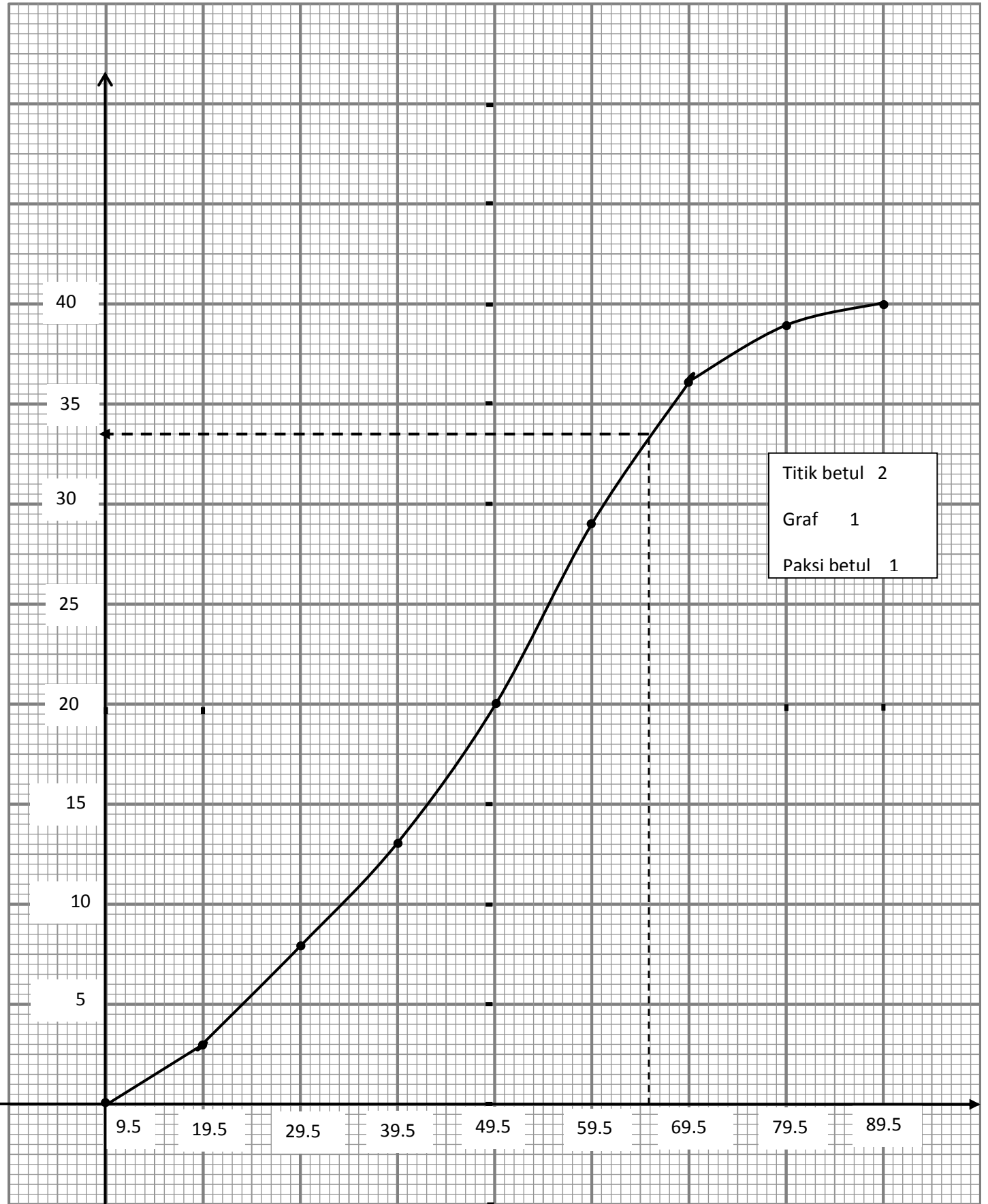
Pintasan -  $x = 9$  1

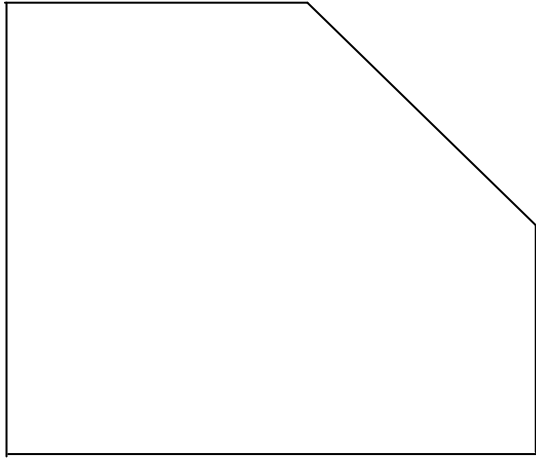
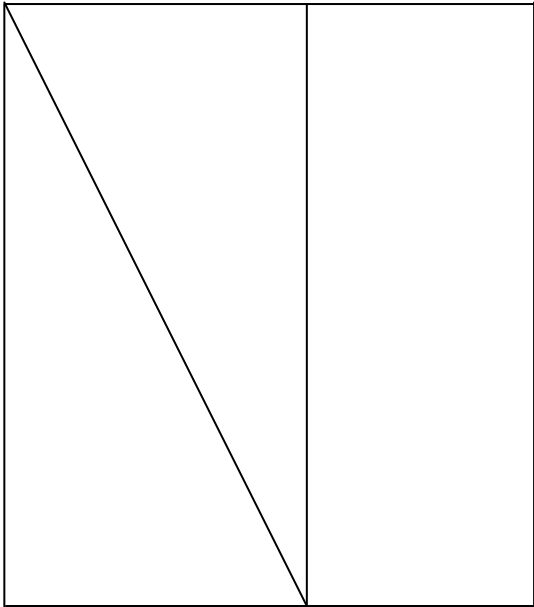
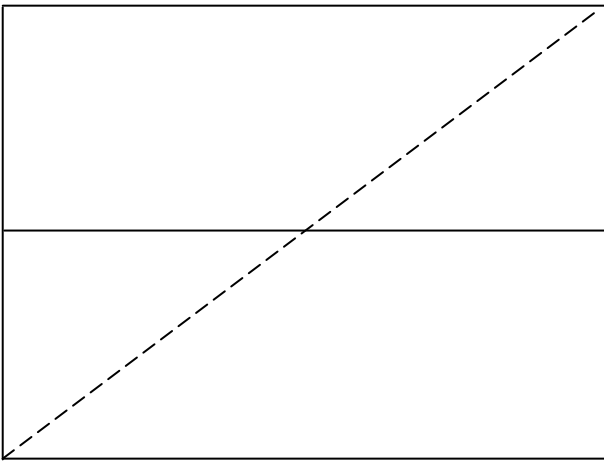
- 8 a)  $28ms^{-1}$  1
- b)  $\frac{28-0}{8}$  1
- $3\frac{1}{2}ms^{-2}$  @  $3.5ms^{-2}$  1
- c)  $\left[\frac{1}{2} \times (T - 8 + T)\right] - \left(\frac{1}{2} \times T \times 28\right) = 42$  1, 1  
 $T = 11$  1
- 9 a) 1, 1
- $10.5 + \left(\frac{30}{360} \times 2 \times \frac{22}{7} \times 10.5\right) + 10.5$  1  
 $= 26.5$  1
- b)  $\left(\frac{30}{360} \times \frac{22}{7} \times 10.5^2\right) + \left(\frac{45}{360} \times \frac{22}{7} \times 21^2\right)$  1, 1  
 $202.125$  1
- 10 a) 1, 1
- $m = 10, n = -3$  1, 1
- b)  $\begin{pmatrix} 2 & 3 \\ -6 & -4 \end{pmatrix} \begin{pmatrix} x \\ y \end{pmatrix} = \begin{pmatrix} 5 \\ -5 \end{pmatrix}$  1  
 $\begin{pmatrix} x \\ y \end{pmatrix} = \frac{1}{10} \begin{pmatrix} -4 & -3 \\ 6 & 2 \end{pmatrix} \begin{pmatrix} 5 \\ -5 \end{pmatrix}$  1  
 $x = -\frac{1}{2}, y = 2$  1, 1
- 11 (a) Ruang sampel,  $S$
- $= \{(G, M), (G, A), (G, N), (R, M), (R, A), (R, N), (E, M), (E, A), (E, N), (A, M), (A, A), (A, N), (T, M), (T, A), (T, N)\}$  1
- (b)  $n(S) = 15$  1
- (i)  $\{(G, M), (G, N), (R, M), (R, N), (T, M), (T, N)\}$  1
- $P(\text{kedua-dua huruf konsonan}) = 6/15$  1
- (ii)  $\{(G, M), (G, A), (G, N), (R, M), (R, A), (R, N), (E, M), (E, N), (A, M), (A, N), (T, M), (T, A), (T, N)\}$  1
- $P(\text{sekurang-kurangnya satu huruf konsonan}) = 13/15$  1

12	<p>a)</p> <table border="1" data-bbox="264 226 544 365"> <tr> <td>x</td> <td>-2</td> <td>3</td> </tr> <tr> <td>y</td> <td><b>-8</b></td> <td><b>7</b></td> </tr> </table>	x	-2	3	y	<b>-8</b>	<b>7</b>	1, 1
x	-2	3						
y	<b>-8</b>	<b>7</b>						
	<p>b)</p>  <p> <math>f(x) = -2 \cdot x^2 + 5 \cdot x + 10</math>  <math>g(x) = 6 \cdot x - 10</math> </p>	Paksi betul 1 Semua titik betul 2 Graf licin berterusan 1						
	<p>c)</p> <p>i) <math>y = -26.48 \pm 0.05</math>      ii) <math>x = -1, 3.5</math></p>	1, 1						
	<p>d) <math>y = 6x - 10</math>,    <i>Garis</i> <math>y = 6x - 10</math>  <math>x = -3.42 \pm 0.01</math>,    <math>2.92 \pm 0.01</math></p>	1, 1 1, 1						
13	<p>a)i. (7, 0) ii) (3, 7)</p>	2 2						
	<p>b) i.(a) Putaran <math>90^\circ</math> lawan arah pusingan jam, pusat di C          (b) Pembesaran, faktor skala 2, pusat pembesaran di titik (4, 7)</p>	1, 1, 1 1, 1, 1						
	<p>c) Luas ABCDE = <math>\frac{115}{4}</math> = 28.75</p>	1 1						

14	<p>a) i)</p> <table border="1" data-bbox="365 259 1262 748"> <thead> <tr> <th>Tinggi (cm)</th> <th>Kekerapan</th> <th>Titik Tengah</th> <th>Sempadan Atas</th> <th>Kekerapan Longgokan</th> </tr> </thead> <tbody> <tr> <td>0 - 9</td> <td>0</td> <td>4.5</td> <td>9.5</td> <td>0</td> </tr> <tr> <td>10 - 19</td> <td>3</td> <td><b>14.5</b></td> <td><b>19.5</b></td> <td><b>3</b></td> </tr> <tr> <td>20 - 29</td> <td>5</td> <td><b>24.5</b></td> <td><b>29.5</b></td> <td><b>8</b></td> </tr> <tr> <td>30 - 39</td> <td>5</td> <td><b>34.5</b></td> <td><b>39.5</b></td> <td><b>13</b></td> </tr> <tr> <td>40 - 49</td> <td>7</td> <td><b>44.5</b></td> <td><b>49.5</b></td> <td><b>20</b></td> </tr> <tr> <td>50 - 59</td> <td>9</td> <td><b>54.5</b></td> <td><b>59.5</b></td> <td><b>29</b></td> </tr> <tr> <td>60 - 69</td> <td>7</td> <td><b>64.5</b></td> <td><b>69.5</b></td> <td><b>36</b></td> </tr> <tr> <td>70 - 79</td> <td>3</td> <td><b>74.5</b></td> <td><b>79.5</b></td> <td><b>39</b></td> </tr> <tr> <td>80 - 89</td> <td>1</td> <td><b>84.5</b></td> <td><b>89.5</b></td> <td><b>40</b></td> </tr> </tbody> </table> <p>ii) 50 - 59</p>	Tinggi (cm)	Kekerapan	Titik Tengah	Sempadan Atas	Kekerapan Longgokan	0 - 9	0	4.5	9.5	0	10 - 19	3	<b>14.5</b>	<b>19.5</b>	<b>3</b>	20 - 29	5	<b>24.5</b>	<b>29.5</b>	<b>8</b>	30 - 39	5	<b>34.5</b>	<b>39.5</b>	<b>13</b>	40 - 49	7	<b>44.5</b>	<b>49.5</b>	<b>20</b>	50 - 59	9	<b>54.5</b>	<b>59.5</b>	<b>29</b>	60 - 69	7	<b>64.5</b>	<b>69.5</b>	<b>36</b>	70 - 79	3	<b>74.5</b>	<b>79.5</b>	<b>39</b>	80 - 89	1	<b>84.5</b>	<b>89.5</b>	<b>40</b>	1, 1, 1  1
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	<p>d)</p> <p>6 pokok</p>																																																			

Graf untuk Soalan 12



15	<p>a)</p> 	X2, N1
		P2 N2
		Y2 N2 Garis putus N1

16	a) $92^{\circ}T$	1, 1
	b) $92 \times 60$ 5520 <i>b.n</i>	1 1
	c) $(92 - 32) \times 60 \times \cos 30$ 3117.69 <i>b.n</i>	1, 1, 1 1
	d) $(32 \times 60) + (30 \times 60) @ 3720$ $\frac{3720}{8.27}$ 449.8 <i>knot</i>	1, 1  1  1