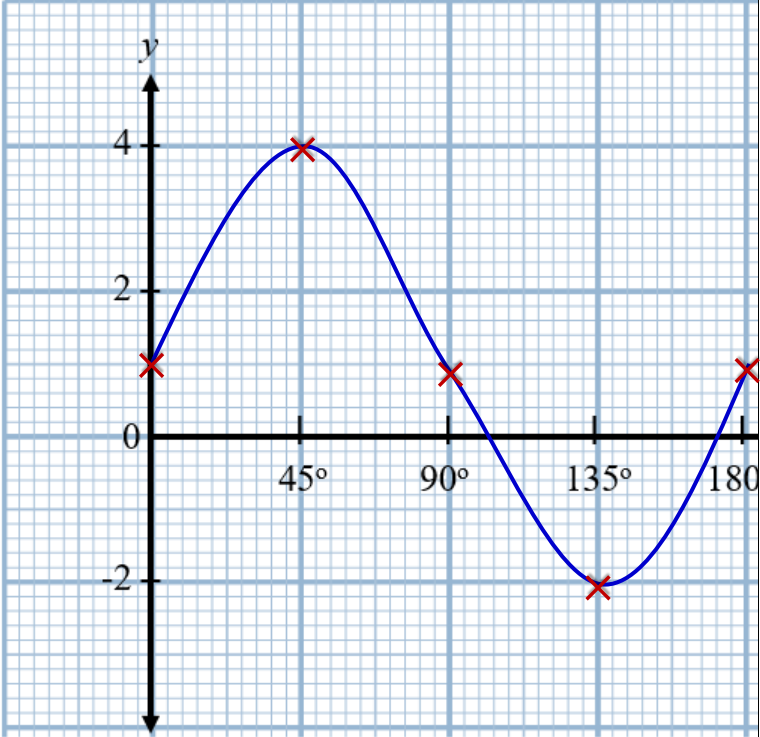
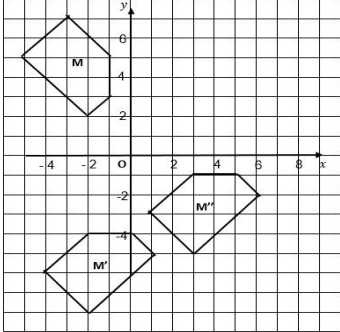


KERTAS 1

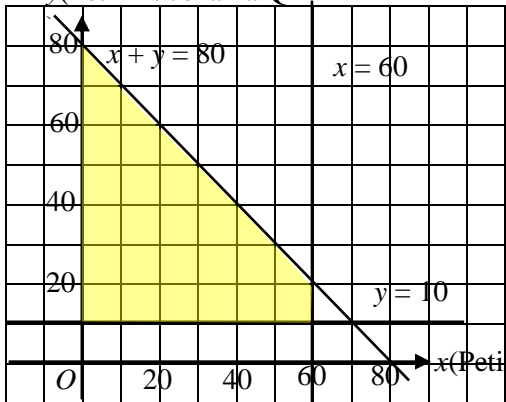
| | | | | | | | |
|----|---|----|---|----|---|----|---|
| 1 | B | 11 | C | 21 | A | 31 | A |
| 2 | B | 12 | C | 22 | B | 32 | D |
| 3 | D | 13 | D | 23 | D | 33 | C |
| 4 | B | 14 | D | 24 | D | 34 | D |
| 5 | C | 15 | B | 25 | A | 35 | C |
| 6 | B | 16 | C | 26 | C | 36 | C |
| 7 | C | 17 | B | 27 | D | 37 | B |
| 8 | B | 18 | D | 28 | D | 38 | B |
| 9 | C | 19 | A | 29 | C | 39 | A |
| 10 | B | 20 | A | 30 | D | 40 | A |

| | | | | | | | | | | | | | | |
|------------------------------|------------|---|-------------------------|----------|-----------------|--------|------------------------------|------------|-------------|------------|------------------------------|-----------|----------------------|---|
| 5. | (a) | $-2 = (2)(3) + c \quad @ \quad c = -8$ $y = 2x - 8$ | K1 N1 | | | | | | | | | | | |
| | (b) | $0 = 2x - 8$ Pintasan x/ x- intercept = 4 | P1 N1 | 4 | | | | | | | | | | |
| 6. | (a) | Aliran tunai bulanan / <i>Monthly cash flow</i> $= (RM 3200 + RM 350) - (RM1850 + RM700 + RM 400)$ $= RM 600$ | K1 N1 | | | | | | | | | | | |
| | (b) | Aliran tunai bulanan / <i>Monthly Cash flow</i> $= RM 3300 - RM 3315 - RM 400 @ - RM 415$ Aliran tunai negatif / <i>Negative Cash flow</i> | K1 N1 | 4 | | | | | | | | | | |
| 7. | (a) | $40_7 = 28$ $1000_3 = 27$ $28 + 25 + 27 = 80$ | K1 K1 N1 | | | | | | | | | | | |
| | (b) | Kotak A | P1 | 4 | | | | | | | | | | |
| 8. | | $\begin{bmatrix} 1 & 1 \\ 3 & -2 \end{bmatrix} \begin{bmatrix} m \\ n \end{bmatrix} = \begin{bmatrix} 6 \\ 33 \end{bmatrix}$ $\frac{1}{(1)(-2) - (1)(3)} \begin{bmatrix} -2 & -1 \\ -3 & 1 \end{bmatrix} \begin{bmatrix} 6 \\ 33 \end{bmatrix} = \begin{bmatrix} m \\ n \end{bmatrix}$ $m = 9, n = -3$ | K1 K1 N1 N1 | 4 | | | | | | | | | | |
| 9. | | <table border="1" data-bbox="394 1522 1105 1885"> <tr> <td>(a) RM1000 yang pertama</td> <td>RM339.10</td> </tr> <tr> <td>(b) RM 26 X 105</td> <td>RM2730</td> </tr> <tr> <td>(c) premium asas = (a) + (b)</td> <td>RM 3069.10</td> </tr> <tr> <td>(d) NCD 55%</td> <td>RM1688.005</td> </tr> <tr> <td>(e) premium kasar = (c) -(d)</td> <td>RM1381.10</td> </tr> </table> | (a) RM1000 yang pertama | RM339.10 | (b) RM 26 X 105 | RM2730 | (c) premium asas = (a) + (b) | RM 3069.10 | (d) NCD 55% | RM1688.005 | (e) premium kasar = (c) -(d) | RM1381.10 | K1 K1 K1 N1 | 4 |
| (a) RM1000 yang pertama | RM339.10 | | | | | | | | | | | | | |
| (b) RM 26 X 105 | RM2730 | | | | | | | | | | | | | |
| (c) premium asas = (a) + (b) | RM 3069.10 | | | | | | | | | | | | | |
| (d) NCD 55% | RM1688.005 | | | | | | | | | | | | | |
| (e) premium kasar = (c) -(d) | RM1381.10 | | | | | | | | | | | | | |

| | | | | |
|-----|-----|--|----------------------------|---|
| 10. | (a) |  | K2 | |
| | (b) | 90° dan 180° | K2 | |
| 11 | (a) |  <p data-bbox="500 1478 607 1541">Betul M' Betul M''</p> <p data-bbox="440 1583 704 1745">(b) $\left(\frac{1}{2}\right)^2 \times 100 @ 25$ 100 – 25 75</p> | P2 P2 K1 K1 N1 | 7 |

| | | | | |
|-----|---|---|--|----|
| 12 | | <p>(a) $2(14 - x)x = x^2 - 20$ $3x^2 - 28x - 20 = 0$ $(3x + 2)(x - 10) = 0$ $x = 10$</p> <p>$2(10 \times 2) @ 2(4 \times 2) @ 2(10 \times 4) @$ setara $40 + 16 + 80 @$ setara 136</p> <p>(b) $10^2 - 20 @ 80$ $\frac{22}{7} \times j^2 \times 12 = 80$ $j = 1.46$ Diameter = 2.91</p> | P1 K1 K1 N1 K1 K1 N1 K1 K1 K1 N1 | 11 |
| 13. | (a) (i) (ii) (iii) (b) (i) (ii) | $2n - 1; n = 1, 2, 3, \dots$ $= 2(10) - 1$ $= 19$ $63 = 2n - 1$ $n = 32$ Implikasi : <i>jika</i> $2 \times 4 = 6$ <i>maka</i> $2 \times 8 = 16$ Akas : : <i>jika</i> $2 \times 8 = 16$ <i>maka</i> $2 \times 4 = 6$ Palsu | K1N1 K1 N1 K1 N1 P1 P1 P1 | 9 |
| 14. | (a) | Rujuk graf Skala yang seragam $20.5 \leq x \leq 100.5, 0 \leq y \leq 20$ Plot semua titik betul 6 titik diplot dengan betul ber K1 Garis licin dan bersambung dengan semua titik yang diberi | P1 K2 N1 | |

| | | | | |
|------------|----------------|--|-----------------------------|----------|
| | <p>(b) (i)</p> | <p>Rujuk graf Skala yang seragam Plot Q1, Q2, dan Q3 dilukis dengan betul $Q1 \approx 44.5, \pm 0.5$ $Q2 \approx 53.5 \pm 0.5$ $Q3 \approx 60.5, \pm 0.5$ Nota: 2 titik betul beri K1 Garis yang licin dan bersambung dengan semua titik yang ada dengan skala yang seragam.</p> | <p>P1 K2</p> <p>N1</p> | <p>9</p> |
| <p>15.</p> | | <p>Dongakan arah X Elevation from X</p> <p>Dongakan arah Y Elevation from Y</p> <p>Pelan Plan</p> | | |
| | <p>(ii)</p> | <p>Taburan pencong ke kanan</p> | <p>P1</p> | |

| | | | | |
|-----|--------|--|---|---|
| | | <p>Pandangan dari X</p> <p>Bentuk kelihatan betul dengan segiempat tepat LAHP, MKHP, LAKM,NJER, REHP dan NJHP Semua garis penuh</p> <p>F – R disambungkan dengan garis putus putus dari Segiempat NJHP</p> <p>$LA > AH > HJ = JK > KA$</p> <p>Ukuran betul sehingga ± 0.2 (sehala) dan sudut di semua bucu segiempat = $90^\circ \pm 1^\circ$</p> <p>Pandangan dari Y</p> <p>Bentuk kelihatan betul dengan dekadagon ABCDEFGHJK Semua garis penuh</p> <p>$AB > BC > JK > CD = JH > HG = GF = FE = ED = AK$</p> <p>Ukuran betul sehingga ± 0.2 (sehala) dan sudut di semua bucu segiempat = $90^\circ \pm 1^\circ$</p> | <p>K1</p> <p>K1</p> <p>K1</p> <p>N2</p> <p>K1</p> <p>K1</p> <p>N2</p> | 9 |
| 16. | (a) i- | <p>$x =$ Peti ais jenama P dan $y =$ peti ais jenama Q</p> <p>(a) $x + y \leq 80$</p> <p>(b) $x \leq 60$</p> <p>(c) $y \geq 10$</p> | <p>P1</p> <p>P1</p> <p>P1</p> | 3 |
| | ii- | <p>y(Peti Ais Jenama Q</p>  <p>x(Peti Ais Jenama P)</p> <p>Betul ketiga-tiga lukisan garis lurus $x+y = 80$, $y=10$ dan $x=60$ dilukis dengan betul Lorekan betul</p> | <p>P3</p> <p>N1</p> | 4 |

| | | | | |
|-----|-----|--|----------------------|---|
| | (b) | <p>Jenama P</p> $\text{Min}(\bar{x}) = \frac{7(0.45) + 9(1.45) + 18(2.45) + 17(3.45) + 9(4.45)}{(7+9+18+17+9)}$ $= 2.65$ $\sigma = \sqrt{\frac{7(0.45)^2 + 9(1.45)^2 + 18(2.45)^2 + 17(3.45)^2 + 9(4.45)^2}{(7+9+18+17+9)} - 2.65^2}$ $= 1.21$ <p>Jenama Q =</p> $\text{Min}(\bar{x}) = \frac{9(0.45) + 14(1.45) + 14(2.45) + 16(3.45) + 7(4.45)}{(9+14+14+16+7)}$ $= 2.42$ $\sigma = \sqrt{\frac{9(0.45)^2 + 14(1.45)^2 + 14(2.45)^2 + 16(3.45)^2 + 7(4.45)^2}{(9+14+14+16+7)} - 2.42^2}$ $= 1.25$ <p>Peti ais jenama P patut dibeli oleh Syihan kerana min peti ais jenama P lebih tinggi dan sisihan piawai yang lebih kecil berbanding dengan jenama Q menunjukkan jangka hayat peti ais jenama P adalah lebih konsisten.</p> | K1 K1 K1 N1 | 5 |
| | (c) | <p>Y = RM136.50</p> $43.60 + 33.40 + 154.80 + 136.50 + 136.50 \times 6\%$ <p>RM376.49</p> | N1 K1 N1 | 3 |
| 17. | (a) | <p>70% x RM500 000</p> $350\,000 + (350\,000 \times 5.5\% \times 30)$ $\text{RM}927\,500 / (12 \times 30) = \text{RM}2576.39$ | K1 K1 N1 | 3 |
| | (b) | $200 = \frac{k \times 100}{5}$ $t = \frac{10r}{p}$ $240 = \frac{10r}{3}$ $r = 72$ | K1 K1 K1 N1 | 4 |
| | (c) | $\frac{80}{100} \times 450\,000$ $34\,000 = \frac{x}{360\,000} \times 45\,000 - 3500$ <p>300 000</p> | K1 K1 N1 | 3 |

| | | | | |
|--|-----|---|------------------------------------|---|
| | (d) | $(20 \times 50) \times (15 \times 50) + (8 \times 50) \times (7 \times 50)$ $890\,000 / (30 \times 30)$ $890\,000 / (50 \times 50)$ $(989 \times \text{RM}2.40) - (356 \times \text{RM}5.60)$ yang harus dipilih ialah jubin yang berukuran 50 cm x 50 cm kerana kosnya lebih jimat sebanyak RM380 berbanding jubin 30 cm x 30 cm | K1 K1 K1 K1 N1 | 5 |
|--|-----|---|------------------------------------|---|

