



Matematik Tambahan

Modul berfokus

Persamaan Serentak



KERTAS 2

1. Selesaikan persamaan serentak.
Solve the simultaneous equations .

$$\begin{aligned}x + 3y &= 13 \\x^2 + 3y^2 &= 43\end{aligned}$$

[5 m / Aras R]

2. Selesaikan persamaan serentak
Solve the simultaneous equations
 $y - 2x = -8$ dan $x^2 - 3x - y = 2$

[5m / Aras S]

3. Selesaikan persamaan serentak $j - k = 2$ dan $j^2 + 2k = 8$. Berikan jawapan anda betul kepada 3 tempat perpuluhan.
Solve the simultaneous equations $j - k = 2$ and $j^2 + 2k = 8$. Give your answers correct to three decimal places.

[5 m / Aras S]

4. Selesaikan persamaan serentak berikut.
Solve the following simultaneous equations
 $x + 2y = 1$ dan $y^2 - 10 = 2x$.

[5 m / Aras S]

5. Selesaikan persamaan serentak berikut.
Solve the simultaneous equations.
 $2x + y = 1$ dan $x^2 + y^2 + xy = 7$

[5 m / Aras S]

6. Selesaikan persamaan serentak berikut. Berikan jawapan anda tepat kepada 3 tempat perpuluhan.
Solve the following simultaneous equations. Give your answers correct to three decimal places.

$$x^2 + 4y^2 = 37 \text{ and } x - 2y = 8$$

[5 m / Aras S]

7. Selesaikan persamaan serentak
Solve the simultaneous equations
 $p + q = 7$ and $p^2 + q^2 = 85$

[5 m / Aras R]

8. Selesaikan persamaan serentak
Solve the simultaneous equations
 $m + 3n = 1$ and $m^2 + 3m + 5n = 20$

[5 m / Aras S]

9. Selesaikan persamaan serentak
Solve the simultaneous equations

$$\begin{aligned} 3x - 2y &= 1, \\ 9x^2 + y &= 7. \end{aligned}$$

[5 m / Aras T]

10. Selesaikan persamaan serentak
Solve the simultaneous equations

$$y - 4x = 3 \text{ and } x^2 - y + 2xy = 8$$

[5 m / Aras S]

11. Selesaikan persamaan serentak
Solve the simultaneous equations

$$\frac{1}{3}p + q = 1 \text{ and } p^2 - 9 = 6q$$

Berikan jawapan anda tepat kepada tiga tempat perpuluhan.
Give your answers correct to three decimal places.

[5 m / Aras T]

12. Selesaikan persamaan serentak
Solve the simultaneous equations

$$x - y = 3 \text{ dan } x^2 + 3y = 12$$

Berikan jawapan anda tepat kepada tiga tempat perpuluhan.
Give your answers correct to three decimal places.

[5 m / Aras S]

13. Selesaikan persamaan serentak.
Solve the simultaneous equations.

$$m - \frac{1}{3}n = \frac{5}{3} \text{ and } 3m + n = \frac{3}{n}$$

[5 m / Aras T]

14. Cari koordinat titik persilangan antara garis lurus $x + 2y = 2$ dengan lengkung
 $y + 2x = 5xy$.
Find the coordinates of points of intersection of the line $x + 2y = 2$ with the curve
 $y + 2x = 5xy$.

[6 m / Aras T]

15. Cari koordinat titik persilangan antara garis lurus $2x + y = 1$ dengan lengkung
 $y^2 + (2x + 3)^2 = 10$.
Find the coordinates of points of intersection of the line $2x + y = 1$ with the curve
 $y^2 + (2x + 3)^2 = 10$.

[6 m/Aras T]

JAWAPAN : MODUL 4 : BAB : PERSAMAAN SERENTAK

KERTAS 2

1. $x=4, y=3; x=2.5, y=3.5$
2. $x=2, y=-4; x=3, y=-2$
3. $j=4.606, k=2.606; j=-2.606, y=-4.606$
4. $x=-3, y=2; x=-3, y=-2$
5. $x=-1, y=3; x=2, y=-3$
6. $x=2.419, y=-2791; x=5.581, y=-1.209$
7. $p=-2, q=9; p=9, q=-2$
8. $m=-5, n=2; m=11/3, n=-8/9$
9. $x=-1, y=-2; x=\frac{5}{6}, y=\frac{3}{4}$
10. $x=1, y=7; x=-1\frac{2}{9}, y=-1\frac{8}{9}$
11. $p=2.653, 5.6533; q=-0.116, 2$
12. $y=-9.322, 0.322;$
 $x=-6.322, 3.322$
13. $m=\frac{11}{6}, \frac{2}{3}; n=\frac{1}{2}, -3$
14. $(1, \frac{1}{2}), (\frac{2}{5}, \frac{4}{5})$
15. $(-1, 3), (0, 1)$