

Note 1 指数 Index

正整数指数	零指数	负整数指数	分数指数
$a^n = \underbrace{a \times a \times a \dots \times a}_{n\text{个}}$	$a^0 = 1 \ (a \neq 0)$	$a^{-n} = \frac{1}{a^n} \ (a \neq 0)$	$a^{\frac{m}{n}} = (\sqrt[n]{a})^m = \sqrt[n]{a^m}$

Note 2 指数幂的运算法则

- ✓ $a^m \times a^n = a^{m+n}$
- ✓ $a^m \div a^n = a^{m-n}$
- ✓ $(a^m)^n = a^{mn}$
- ✓ $(ab)^n = a^n b^n$
- ✓ $(\frac{a}{b})^n = \frac{a^n}{b^n}$

Note 3 对数 Logarithms

$$\checkmark \quad a^n = x \leftrightarrow \log_a x = n$$

Note 4 对数的基本性质 Basic Nature of Logarithms

- ✓ $\log_a a = 1$
- ✓ $\log_a 1 = 0$

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Note 5 对数的运算法则 Operation Principle of Logarithms

- ✓ $\log_a(xy) = \log_a x + \log_a y \ (x > 0, y > 0)$
- ✓ $\log_a \frac{x}{y} = \log_a x - \log_a y \ (x > 0, y > 0)$
- ✓ $\log_a x^m = m \log_a x \ (x > 0)$
- ✓ $a^{\log_a x} = x$

Note 6 对数换底公式 Transform the base of Logarithms

$$\log_a x = \frac{\log_b x}{\log_b a} \quad \& \quad \log_a b = \frac{1}{\log_b a}$$

Note 7 复利与年金 Compound Interest and Annuities

t 年后的本利和 $A = p(1 + \frac{r}{100})^t$, p 也叫做 A 的现值。





Tutorial 1

1. $\left(\frac{1}{3}\right)^2 + \left(\frac{1}{3}\right)^0 - \left(-\frac{1}{3}\right)^{-2} = [Ans : -\frac{71}{9}]$

2. $\left(\frac{3^{-5} \cdot 3^2}{3^{-3}}\right)^{-2} = [Ans : 1]$

3. $6^{-8} \div 6^{-5} + 3^{-3} = [Ans : \frac{1}{24}]$

4. $12^{\frac{1}{3}} \times 6^{\frac{1}{3}} \div 27^{\frac{1}{6}} \div 3^{\frac{1}{6}} = [Ans : 2]$

5. $(0.2)^{-2} \times (0.125)^{\frac{2}{3}} = [Ans : \frac{25}{4}]$

6. $(0.3)^{-\frac{1}{3}} \times (0.0081)^{\frac{1}{3}} + (0.064)^{\frac{1}{3}} = [Ans : \frac{7}{10}]$

7. $\left(\frac{81}{16}\right)^{-0.25} \times \left(\frac{8}{27}\right)^{-\frac{2}{3}} \times (0.25)^{-2.5} = [Ans : 48]$

8. $\left(\frac{1}{2}\right)^{-2} + 125^{\frac{2}{3}} + 343^{\frac{1}{3}} - \left(\frac{1}{27}\right)^{-\frac{1}{3}} = [Ans : 33]$

9. $\left(2\frac{1}{4}\right)^{-\frac{3}{2}} + \left(1\frac{11}{25}\right)^{-\frac{1}{2}} - \left(2\frac{2}{3}\right)^0 = [Ans : \frac{7}{54}]$

10. $\frac{\sqrt[5]{4} \cdot \sqrt{8} (\sqrt[3]{\sqrt[5]{(4)^2}})}{\sqrt[3]{\sqrt{2}}} = [Ans : 4]$

11. $a^{\frac{1}{2}} \cdot a^{\frac{1}{4}} \cdot a^{-\frac{1}{8}} \cdot a^{\frac{3}{8}} = [Ans : a]$

12. $(9a^2b^{-2}c^{-4})^{-1} = [Ans : \frac{b^2c^4}{9a^2}]$

13. $\frac{3 \times 2^n - 4 \times 2^{n-2}}{2^n - 2^{n-1}} [Ans : 4]$

14. $3a^{-2}b^{-3} \div (-3^{-1}a^2b^{-3}) = [Ans : \frac{-9}{a^4}]$

15. $(3^{n+6} - 5 \times 3^{n+1}) \div (7 \times 3^{n+2}) = [Ans : \frac{34}{3}]$

16. $5a^{-2}b^{-3} \div (5^{-1}a^2b^3) \times 5^{-2}ab^4c = [Ans : \frac{c}{a^3b^2}]$

17. $\frac{a^{-2}-b^{-2}}{a^{-2}+b^{-2}} [Ans : \frac{b^2-a^2}{b^2+a^2}]$

18. $(a^{-1} + b^{-1})(a+b)^{-1} = [Ans : \frac{1}{ab}]$

19. $(x+x^{-1})(x-x^{-1}) = [Ans : \frac{x^4-1}{x^2}]$

20. $(-2x^{\frac{1}{4}}y^{-\frac{1}{3}})(3x^{-\frac{1}{2}}y^{\frac{2}{3}})(-4x^{\frac{1}{4}}y^{\frac{2}{3}}) = [Ans : 24y]$

21. $2x^{-\frac{1}{3}}\left(\frac{1}{2}x^{\frac{1}{3}} - 2x^{-\frac{2}{3}}\right) = [Ans : \frac{x-4}{x}]$

22. $(\sqrt[3]{x^3} \cdot \sqrt{y})^2 \cdot (\sqrt{y} \cdot \sqrt{x^3})^3 = [Ans : \sqrt{x^{13} \cdot y^5}]$



Tutorial 2 解以下方程式 Solve the following equations

1. $3^{2x} = -\frac{1}{9}$ [Ans : 无解]
2. $2^{x^2+4x} = \frac{1}{8}$ [Ans : $x = -3$ or -1]
3. $6^x = 5^{x-1}$ [Ans : $x = -8.8275$]
4. $4^{x-1} + 2^{x-1} = 20$ [Ans : $x = 3$]
5. $8^{x-3} = \frac{1}{256}$ [Ans : $x = \frac{1}{3}$]
6. $3^{2x+1} = 243$ [Ans : $x = 2$]
7. $10^{x^2-4} = 1$ [Ans : $x = -2$ or 2]
8. $3^{x^2+3} = 27^{x+7}$ [Ans : $x = -3$ or 6]
9. $4^{x^2} = 2^{5x+7}$ [Ans : $x = -1$ or $\frac{7}{2}$]
10. $5^{2x^2+x} = 25^{1+x-2x^2}$ [Ans : $x = -\frac{1}{2}$ or $\frac{2}{3}$]

Tutorial 3 解以下方程式 Solve the following equations

1. $(\frac{9}{16})^x = (\frac{4}{3})^{x-6}$ [Ans : $x = 2$]
2. $5^{2x+1} = 5^{4x+1}$ [Ans : $x = 0$]
3. $\frac{5^{x^2}}{5} = 7^{(x+1)(x-1)}$ [Ans : $x = -1$ or 1]
4. $3^{x+1} = 4^{x-1}$ [Ans : $x = 8.6377$]
5. $7^{5-3x} = 5^{x+2}$ [Ans : $x = 0.8742$]
6. $2^{x^2-1} = 3^{x+1}$ [Ans : $x = -1$ or 2.5850]
7. $3^{x+1} + 9^x - 18 = 0$ [Ans : $x = 1$]



Tutorial 4 解以下方程式 Solve the following equations

1. $2^{x+2} + 3(2^{1-x}) - 14 = 0$ [Ans : $x = -1$ or $\log_2 3$]

2. $2^{2x-1} - 3 \cdot 2^{x-1} + 1 = 0$ [Ans : $x = 0$ or 1]

3. $3^x - 5^{x+2} = 3^{x+1} - 5^{x+3}$ [Ans : $x = -7.6582$]

4. $3^{3x-2} = 243$ [Ans : $x = \frac{7}{3}$]

5. $4^{1-x} = (\frac{1}{8})^{2x}$ [Ans : $x = -\frac{1}{2}$]

6. $2^{x^2} = (2^x)^2$ [Ans : $x = 0$ or 2]

7. $3^{5x} = 3$ [Ans : $x = 0$]

8. $5^{8x} = 625$ [Ans : $x = \frac{2}{3}$]

9. $7^x - 7^{x-1} = 6$ [Ans : $x = 1$]

10. $2^{2x+1} = 3(2^x) - 1$ [Ans : $x = -1$ or 0]

Tutorial 5

1. $5^{2x+1} = 26(5^x) - 5$ [Ans : -1 or 1]

2. $2^{2x+3} - 2^x = 1 - 2^{x+3}$ [Ans : -3]

3. 若 $a^m = 10$ 及 $a^n = 2$ ，则 $a^{m-2n} = ?$

If $a^m = 10$ and $a^n = 2$, then $a^{m-2n} = ?$ [Ans : 2.5]

4. 若 $4^x = 5$ ，则 $8^x = ?$

If $4^x = 5$, then $8^x = ?$ [Ans : $3\sqrt{5}$]

5. 若 $2^{n-2} \div 3^{n-1} = \frac{27}{16}$ ，求 n 的值。

If $2^{n-2} \div 3^{n-1} = \frac{27}{16}$ ，find the value of n. [Ans : -2]

Tutorial 6

1. 解 $(2^x)^3 \cdot 4^{(x^2-6x)} = \frac{1}{16}$ 。

Solve $(2^x)^3 \cdot 4^{(x^2-6x)} = \frac{1}{16}$ [Ans : $x = \frac{1}{2}$ or 4]

2. 已知 $y = ax^b + 10$, 且当 $x = 2$ 时 $y = 26$ 及当 $x = 3$ 时 $y = 64$, 求 a 的值。

Given $y = ax^b + 10$, when $x = 2, y = 26$ and when $x = 3, y = 64$, find the value of a . [Ans : $a = 2$]

3. 解方程式 $2^{2x+2} + 2^{x+2} = 3$ 。

Solve the equation $2^{2x+2} + 2^{x+2} = 3$. [Ans : $x = -1$]

4. 解指数方程式 $2^{x+1} + 2^{x+2} + 2^{x+3} = 224$ 。

Solve the equation $2^{x+1} + 2^{x+2} + 2^{x+3} = 224$. [Ans : $x = 4$]

5. 解方程式 $3^{2x+1} - 6(3^{x+1}) + 27 = 0$ 。

Solve the equation $3^{2x+1} - 6(3^{x+1}) + 27 = 0$ [Ans : $x = 1$]

6. 解方程式 $4^x + 16 = 5 \cdot (2^{x+1})$ 。

Solve the equation $4^x + 16 = 5 \cdot (2^{x+1})$. [Ans : $x = 1$ or 3]

7. 设 $3^{x+y} = 243$ 及 $3^{x-y} = 3$, 求 x 的值。

If $3^{x+y} = 243$ and $3^{x-y} = 3$, find the value of x . [Ans : 3]

**Tutorial 7**

1. $\log_2 4^x = [Ans : 2x]$

2. $\log_2 a^{\log_a 2} = [Ans : 1]$

3. $3^{\log_3 x - \log_3 y} = [Ans : \frac{x}{y}]$

4. $\log_3(9^x \times 27^y) = [Ans : 2x + 3y]$

5. $2^{-\log_8 x} = [Ans : x^{-\frac{1}{3}}]$

6. $3\log_4 2^x = [Ans : \frac{3x}{2}]$

7. $\log_7 \sqrt[3]{49} = [Ans : \frac{2}{3}]$

8. $49^{\log_7 3} = [Ans : 9]$

9. $2^{2\log_2 7} + \left(\frac{1}{2}\right)^{-\log_2 7} = [Ans : 56]$

10. $\log_3 5 - \log_3 15 = [Ans : -1]$

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Tutorial 8

1. $\log_5 \frac{1}{5} + \log_5 \sqrt[3]{5} - \log_5 25 = [Ans : -\frac{8}{3}]$

2. $\log_3 \sqrt[3]{27 \sqrt[4]{81}} [Ans : \frac{4}{3}]$

3. $\log(0.1)^4 - \log \sqrt[3]{0.001} [Ans : -3]$

4. $\frac{\log 4 + \log 3}{1 + \log 0.4 + \frac{1}{2} \log 9} = [Ans : 1]$

5. $\log_{36} 6 - \log_6 36 - \log_6 \frac{1}{6} = [Ans : -\frac{1}{2}]$

6. $\log_2 \frac{1}{25} \cdot \log_3 \frac{1}{8} \cdot \log_5 \frac{1}{9} = [Ans : -12]$

7. $\log_4 5 \cdot \log_5 6 \cdot \log_6 7 \cdot \log_7 8 = [Ans : \frac{3}{2}]$

8. $\log_4 8 - \log_{\frac{1}{9}} 3 - \log_{\sqrt{2}} 4 = [Ans : -2]$

9. $(\log_2 3 + \log_2 \sqrt{3}) \log_{\sqrt{3}} 2 = [Ans : 3]$

10. $\frac{\log_5 \sqrt{2} \cdot \log_7 9}{\log_7 \sqrt[3]{4} \cdot \log_5 \frac{1}{3}} = [Ans : -\frac{3}{2}]$

MathTalk



Tutorial 9

1. 以知 $\log_3 5 = m$ 及 $\log_5 6 = n$ 。以 m 及 n 表示 $\log_{25} 54$ 。

Given $\log_3 5 = m$ and $\log_5 6 = n$. Express $\log_{25} 54$ in terms of m and n . [Ans : $\frac{mn+2}{2m}$]

2. 已知 $\log_2 3 = a$ 及 $\log_3 7 = b$ 。以 a 及 b 表示 $\log_{42} 14$ 。

Given $\log_2 3 = a$ and $\log_3 7 = b$. Express $\log_{42} 14$ in terms of a and b . [Ans : $\frac{ab+1}{ab+a+1}$]

3. 已知 $\log_3 6 = x$ 。以 x 表示 $\log_9 12$ 。

Given $\log_3 6 = x$. Express $\log_9 12$ in terms of x . [Ans : $\frac{2x-1}{2}$]

4. 已知 $\log_3 y - \log_9 \sqrt[3]{x} = 1 + \log_{27} x$ 。以 x 表示 y 。

Given $\log_3 y - \log_9 \sqrt[3]{x} = 1 + \log_{27} x$, express y in terms of x . [Ans : $y = 3\sqrt{x}$]

5. 已知 $\log_{25}(2x - 1) = \log_5(x - 3) + \log_{25} 5$ ，证明 $5x^2 - 32x + 46 = 0$ 。

Given $\log_{25}(2x - 1) = \log_5(x - 3) + \log_{25} 5$, prove that $5x^2 - 32x + 46 = 0$.

6. 若 $a > 0$ 及 $b > 0$ ，且 $a^2 + b^2 = 7ab$ ，证明 $2\log_3(a + b) = 2 + \log_3 a + \log_3 b$ 。

If $a > 0$ and $b > 0$, and $a^2 + b^2 = 7ab$, prove that $2\log_3(a + b) = 2 + \log_3 a + \log_3 b$.

7. 若 $x > 0$ 及 $y > 0$ ，且 $x^2 + 9y^2 = 10xy$ ，证明 $2\log(x + 3y) - 4\log 2 = \log x + \log y$ 。

If $x > 0$ and $y > 0$, and $x^2 + 9y^2 = 10xy$, prove that $2\log(x + 3y) - 4\log 2 = \log x + \log y$.

8. 求方程式 $\log(x^2 + 11x + 8) - \log(x + 1) = 1$ 的解集。

Find the solution of equation $\log(x^2 + 11x + 8) - \log(x + 1) = 1$. [Ans : $x = 1$]



9. 若 $3^{2x} = \log 8 + \log 125$, 不许使用计算机 , 求 x 的值。

If $3^{2x} = \log 8 + \log 125$, without using calculator, find the value of x . [Ans : $x = \frac{1}{2}$]

10. 已知 $\log 2 = a$, 求 $\log 0.05$ 的值。

Given $\log 2 = a$, find the value of $\log 0.05$. [Ans : $-(a+1)$]

Tutorial 10

1. 已知 $\log_2 m = 8$, 求 $\log_4 \sqrt{m}$ 。

Given $\log_2 m = 8$, calculate $\log_4 \sqrt{m}$. [Ans : 2]

2. 若 $\log_2 x = a$ 及 $\log_3 x = b$, 则 $\log_6 x = ?$

If $\log_2 x = a$ and $\log_3 x = b$, then $\log_6 x = ?$ [Ans : $\frac{ab}{a+b}$]

3. 设 $\log_2 x = a$ 及 $\log_3 x = b$, 求 $\log_x 6$ 。

Let $\log_2 x = a$ and $\log_3 x = b$, find $\log_x 6$. [Ans : $\frac{a+b}{ab}$]

4. $x^{\log_x 2} = ?$ [Ans : 2]

5. 若 $a = \log_5 2$ 及 $b = \log_3 5$, 求 $5^{a-\frac{1}{b}}$ 的值。

If $a = \log_5 2$ and $b = \log_3 5$, find the value of $5^{a-\frac{1}{b}}$. [Ans : $\frac{2}{3}$]

6. 如果 a 、 b 、 c 为正数 , 求 $\log_a b \cdot \log_b c \cdot \log_c a$ 。

If a , b , c as positive number, find $\log_a b \cdot \log_b c \cdot \log_c a$. [Ans : 1]

7. 化简 $\log_3 6 + \log_3 4 - \log_3 8$ 。

Simplify $\log_3 6 + \log_3 4 - \log_3 8$. [Ans : 1]



8. 若 $\log_{12}(2\sqrt{3})^x = 2$, 求 x 的值。

If $\log_{12}(2\sqrt{3})^x = 2$, find the value of x . [Ans : 4]

9. 若 $\log_2 x = p$ 及 $\log_2 y = q$, 则 $\log_x 2y = ?$

If $\log_2 x = p$ and $\log_2 y = q$, then $\log_x 2y = ?$ [Ans : $\frac{1+q}{p}$]

Tutorial 11

1. 若 $a > 1$, 化简 $\log_5 7 \cdot \log_{a^2} 25 \cdot \log_{49} a$ 。

If $a > 1$, simplify $\log_5 7 \cdot \log_{a^2} 25 \cdot \log_{49} a$. [Ans : $\frac{1}{2}$]

2. 化简 $(\log_2 3 + \log_4 9)(\log_3 4 - \log_9 2)$ 。

Simplify $(\log_2 3 + \log_4 9)(\log_3 4 - \log_9 2)$. [Ans : 3]

3. 不许使用计算机 , 求 $\log_{10} \frac{7}{9} + 2\log_{10} 3 - \log_{10} \frac{14}{25} + 3\log_{10} 2$ 的值。

Without using calculator, find the value of $\log_{10} \frac{7}{9} + 2\log_{10} 3 - \log_{10} \frac{14}{25} + 3\log_{10} 2$. [Ans : 2]

4. 已知 $\log 12 = a$, $\log 18 = b$, 试以 a 及 b 表示 $\log 2.16$ 。

Given $\log 12 = a$, $\log 18 = b$, express $\log 2.16$ in terms of a and b . [Ans : $a + b - 2$]

5. 已知 $\log_{16} x = \frac{1}{2}$ 及 $\log_2 y = 3$, 求 $\log_x y$ 的值。

Given $\log_{16} x = \frac{1}{2}$ and $\log_2 y = 3$, find the value of $\log_x y$. [Ans : $\frac{3}{2}$]

6. 已知 $\log Q = \frac{1}{3} (3\log 2 - \log 0.125 - 6\log 3)$, 不许使用计算机 , 求 $\log_{\frac{3}{2}} Q$ 的值 [Ans : -2]

Given $\log Q = \frac{1}{3} (3\log 2 - \log 0.125 - 6\log 3)$, without using calculator, find the value of $\log_{\frac{3}{2}} Q$.

7. $\frac{\log \sqrt{3}}{\log \frac{1}{9}} = [\text{Ans} : -\frac{1}{4}]$



Tutorial 12

1. $\log_{\sqrt{3}}x = -2$ [Ans : $\frac{1}{3}$]
2. $\log_2 x^4 = 4$ [Ans : -2 or 2]
3. $\log \frac{x-2}{x+2} = \log \frac{1}{x-1}$ [Ans : 4]
4. $2 \log x + \log 7 = \log 14$ [Ans : $\sqrt{2}$]
5. $\log(x+6) - \log(x-3) = 1$ [Ans : 4]
6. $\log_6 x + \log_6(x^2 - 7) = 1$ [Ans : 3]
7. $\log_{1.2}(15x^2 - 2x - 12) = 0$ [Ans : $-\frac{13}{15}$ or 1]
8. $\log_8(x^2 - 3x - 2) = \frac{1}{3}$ [Ans : -1 or 4]
9. $\log_3(2x-3) + \log_3(3x+2) = \log_3(2x-1)$ [Ans : $\frac{5}{3}$]
10. $\frac{1}{2}(\log x - \log 5) = \log 2 - \frac{1}{2}\log(9-x)$ [Ans : 4 or 5]

Tutorial 13 Solve the following equations :

1. $\log(x+6) - \frac{1}{2}\log(2x-3) = 2 - \log 25$ [Ans : 6 or 14]
2. $\log_2 x = \log_8 x + 1$ [Ans : $2\sqrt{2}$]
3. $3^{\log x} = 2^{\log 3}$ [Ans : 2]
4. $4x^{\log_2 x} = x^3$ [Ans : 2 or 4]
5. $2(\log_3 x)^2 + \log_3 x - 1 = 0$ [Ans : $\frac{1}{3}$ or $\sqrt{3}$]
6. $\log_4^2 x - 5\log_4 x + 6 = 0$ [Ans : 16 or 64]
7. $6\log^2 x + \log x^3 - 3 = 0$ [Ans : $\frac{1}{10}$ or $\sqrt{10}$]
8. $(\log x)^2 = 2 \log x$ [Ans : 1 or 100]
9. $\log_x 25 - \log_{25} x = 0$ [Ans : $\frac{1}{25}$ or 25]
10. $2\log_4 x - 3\log_x 4 + 5 = 0$ [Ans : $\frac{1}{64}$ or 2]



Tutorial 14

1. $2\log_x 10 - \log x + 1 = 0$ [Ans : $\frac{1}{10}$ or 100]
2. $\log_3[\log_2(\log_x 5)] = 0$ [Ans : $\sqrt{5}$]
3. $\log_3 x = 5$ [Ans : 243]
4. $\log_5(x - 2) = 0$ [Ans : 3]
5. $\log(x^2 + 2x - 3) - \log(x + 3) = 0$ [Ans : 2]
6. $\log_3(3x + 1) + 1 = \log_3(2x - 1) + \log_3 5$ [Ans : 8]
7. $\log_x 3 + \log_x 81 = 5$ [Ans : 3]
8. $3\log_2^2 x + 5\log_2 x - 2 = 0$ [Ans : $\frac{1}{4}$ or $\sqrt[3]{4}$]
9. $\log_2 x - \log_x 8 = 2$ [Ans : $\frac{1}{2}$ or 8]

Tutorial 15



1. $x^{\log x} = 100x$ [Ans: $\frac{1}{10}$ or 100]
2. $2 \log x - 3 \log 4 = 2$ [Ans : 80]
3. $\log x + \log(x + 3) = \log(x + 8)$ [Ans : 2]
4. $(\log_2 x)^2 = \log_2 x + 6$ [Ans : $\frac{1}{4}$ or 8]
5. $\log_3 x + 6\log_x 3 = 5$ [Ans : 9 or 27]
6. $4^{\log x} = 2^{\log x + 1}$ [Ans : 10]
7. $\log_{x+1}(x^2 - 5x - 13) = 2$ [Ans : 无解]
8. $\log_x \sqrt{2x^2 - 5x + 6} = 1$ [Ans : 2 or 3]
9. $\log_2(x + 1) + \log_2(x + 3) = 3 + \log_2 x$ [Ans : 1 or 3]
10. $\log_2[\log_3(\log_5 x)] = 0$ [Ans : 125]
11. $3\log_8 x - 2\log_2 x + 2 = 0$ [Ans : 4]





Tutorial 16

1. $\log_4(x+4) + 1 = \log_2(x+1)$ [Ans : 5]
2. $2\log_2 x \cdot \log_8 x = \log_2 x + \log_8 x$ [Ans : 1 or 4]
3. $\log_2(x^2 - x - 2) - \log_2(x+1) = 0$ [Ans : 3]
4. $\log x + \log(x-3) = 1$ [Ans : 5]
5. $2 \log x = \log 32 + \log 2$ [Ans : 8]

Tutorial 17 复利与年金

1. 已知本金是 RM90000， 年利率是 5%， 以每年一期的复利计算， 求 10 年后的本利和。
Given that principal is RM90000, annual interest rate is 5%, with yearly compound interest, calculate sum of accumulated principal and interest after 10 years. [Ans : RM146600.52]
2. 将 RM80000 存入金融公司， 年利率是 8%， 每三个月结算一次。以复利计算， 求 5 年后的本利和。
Save RM80000 into a financial company, annual interest rate is 8%, compounding frequency quarterly , with compound interest, calculate the sum of accumulated principal and interest after 5 years. [Ans: RM118875.79]

