求 c 的值, 若 $2^b = c^4$ 及 c > 0。

Find the value of c, if $2^{12} = c^4$ and c > 0.

1983 FI5.3

若 $pc^4 = 32$, $pc = b^2$ 及 c 為正數, c 的值為何?

If $pc^4 = 32$, $pc = (-2)^2$ and c is positive, what is the value of c?

1984 FSI.3

若 $8^b = c^{21}$, 求 c 的值。If $8^7 = c^{21}$, find the value of c.

1984 FI1.2

若 $9^2 = 3^{4b}$, 求 b 的值。If $9^2 = 3^{4b}$, find the value of b.

1984 FI4.3

若 $c^3 = 8^2$, 求 c 的值。If $c^3 = 8^2$, find the value of c.

1985 FI1.4

若 $9^{d+2} = 6480 + 9^d$, 求 d 的值。 Find the value of d if $9^{d+2} = 6480 + 9^d$.

1986 FSI.3

若 $8^5 = 32^c$, 求 c 的值。If $8^5 = 32^c$, find the value of c.

1986 FG7.4

若 $9^{p+2} = 240 + 9^p$, 求 p 的值。If $9^{p+2} = 240 + 9^p$, find the value of p.

1987 FI2.2

若 $3^x + 3^{1-x} = 4$,且 x > 0,求 x 的值。If $3^x + 3^{1-x} = 4$ and x > 0,

find the value of x.

1987 FSG.2

若 $9^6 = 27^B$, 求 B 的值。If $9^6 = 27^B$, find the value of B.

1988 FI2.3

若 $64^a = 2^{12}$, 求 a 的值。If $64^a = 2^{12}$, find the value of a.

1988 FI4.4

若 w 是實數,且 $2^{2w}-2^w-2=0$,求 w 的值。

If w is a real number and $2^{2w} - 2^w - 2 = 0$, find the value of w.

1989 FSI.3

若 $27^6 = c^{18}$, 求 c 的值。If $27^6 = c^{18}$, find the value of c.

1989 FI1.3

已知 $8^4 = 2^{c+2}$, 求 c 的值。If $8^4 = 2^{c+2}$, find the value of c.

1990 HI2

若 b < 0 及 $2^{2b+4} - 20 \times 2^b + 4 = 0$, 求 b 的值。

If b < 0 and $2^{2b+4} - 20 \times 2^b + 4 = 0$, find the value of b.

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1990 FI4.1

解下列 a 的方程 $2^{a+1} + 2^a + 2^{a-1} = 112$ 。

Solve the equation $2^{a+1} + 2^a + 2^{a-1} = 112$ in *a*.

1991 HI11

若 a < 0,且 $2^{2a+4} - 65 \times 2^a + 4 = 0$,求 a 的值。

If a < 0 and $2^{2a+4} - 65 \times 2^a + 4 = 0$, find the value of a.

1991 FI1.2

若 rb = 15,且 $br^4 = 125 \times 15$,其中 r 是整數,求 b 的值。

If rb = 15 and $br^4 = 125 \times 15$, where r is an integer, find the value of b.

1992 FSI.2

若 $2^{20} = B^{10}$ 且 B > 0, 求 B 的值。 If $2^{20} = B^{10}$ and B > 0, find the value of B.

1992 FI2.1

若 ar = 24 及 $ar^4 = 3$, 求 a 的值。If ar = 24 and $ar^4 = 3$, find the value of a.

1995 HI3

解 $3^{2x} + 9 = 10(3^x)$ · Solve $3^{2x} + 9 = 10(3^x)$.

1996 HI1

已知 $4^{x-3} = 8^{x-2}$,求 x 的值。Find the value of x if $4^{x-3} = 8^{x-2}$.

1996 FI3.2

若 $3^2 \cdot 3^5 \cdot 3^8 \cdots 3^{3b-1} = 27^5$,求 b 的值。

Find the value of *b* if $3^2 \cdot 3^5 \cdot 3^8 \cdot \cdot \cdot \cdot 3^{3b-1} = 27^5$.

1996 FI3.4

若 $[(4^2)^2]^2 = 2^d$, 求 d 的值。If $[(4^2)^2]^2 = 2^d$, find the value of d.

1996 FI4.2

若 $8^b = 4^{3.5} - 4^3$, 求 b 的值。If $8^b = 4^{3.5} - 4^3$, find the value of b.

1999 FG2.2

若 $6^b + 6^{b+1} = 2^b + 2^{b+1} + 2^{b+2}$, 求 b 之值。

If $6^b + 6^{b+1} = 2^b + 2^{b+1} + 2^{b+2}$, find the value of b.

2004 HG2

若 z 是方程 $6\times4^x - 13\times6^x + 6\times9^x = 0$ 的正數根,求 z 的值。

If z is the positive root of the equation $6\times4^x - 13\times6^x + 6\times9^x = 0$, find the value of z.

2005 FI3.1

已知a是方程 $2^{x+1} = 8^{x-3}$ 的正實數解,求a的值。

Given that a is a positive real root of the equation $2^{x+1} = 8^{\frac{1}{x} - \frac{1}{3}}$. Find the value of a.

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2006 FG3.2

已知
$$6^{x+y} = 36$$
 及 $6^{x+5y} = 216$,求 x 的值。

Given that $6^{x+y} = 36$ and $6^{x+5y} = 216$, find the value of x.

2007 FI2.4

$$\frac{2}{2}$$
 $\frac{1}{2}$ 設 d 為方程 $cx^3 - 8x^3 + 4 = 0$ 的最小實根,求 d 的值。

$$\frac{2}{2}$$
 $\frac{1}{2}$

Let d be the least real root of the $3x^{\frac{2}{3}} - 8x^{\frac{1}{3}} + 4 = 0$, find the value of d.

2009 HG7

已知
$$x$$
 為實數且滿足 $2^{2x+8}+1=32\times 2^x$, 求 x 的值。

Given that x is a real number and satisfies $2^{2x+8} + 1 = 32 \times 2^x$. Find the value of x.

2010 FG1.3

求方程
$$(2^x-4)^3+(4^x-2)^3=(4^x+2^x-6)^3$$
的所有實根 x 的總和。

Find the sum of all real roots x of the equation $(2^x - 4)^3 + (4^x - 2)^3 = (4^x + 2^x - 6)^3$.

2018 HI5 2018 FG2.1

已知
$$\frac{1-2^{-\frac{1}{x}}}{2^{-\frac{1}{x}}-2^{-\frac{2}{x}}} = 4 \circ$$
求 的值。 Given that $\frac{1-2^{-\frac{1}{x}}}{2^{-\frac{1}{x}}-2^{-\frac{2}{x}}} = 4$. Find the value of x .

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Answers

7 1113 W C1 3				
1983 FI1.3	1983 FI5.3	1984 FS1.3	1984 FI1.2	1984 FI4.3
8	2	2	1	4
1985 FI1.4 2	1986 FSI.3 3	1986 FG7.4 1/2	1987 FI2.2 1	1987 FSG.2 4
1988 FI2.3	1988 FI4.4	1989 FSI.3	1989 FI1.3	1990 HI2
2	1	3	10	-2
1990 FI4.1	1991 HI11	1991 FI1.2	1992 FSI.2	1992 FI2.1
5	-4	3	4	48
1995 HI3	1996 HI1	1996 FI3.2	1996 FI3.4	1996 FI4.2
0 or 2	0	3	16	2
1999 FG2.2 0	2004 HG2 1	2005 FI3.1 1	2006 FG3.2 $\frac{7}{4}$	$\frac{2007 \text{ FI2.4}}{\frac{8}{27}}$
2009 HG7 -4	2010 FG1.3 3.5	2018 HI 5 2018 FG2.1 1 2		

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