Meet 4 Answers

Arithmetic with Literal Equations February 1993

1.

2.

3.

Arithmetic with Literal Equations February 1994

1.

2.

3.

Arithmetic with Literal Equations February 1995

1. 525

2. $a = -b$

3. -3

Arithmetic with Literal Equations February 1996

1. 3cc

2. $\frac{16 - 2a^2}{2a - 7}$

3. 20

Arithmetic with Literal Equations February 1997

1.

2.

3.

Arithmetic with Literal Equations February 1999

1.

2.

3.

Arithmetic with Literal Equations March 2001

1. $\frac{2A}{h} - b_2$ *or* $\frac{2A - hb_2}{h}$

2. $c - b$

3. \$800

Arithmetic with Literal Equations March 2002(No Calculators)

1. $\frac{20IR}{21}$

2. $\frac{2FBC}{BE - 2FA}$

3. 7/3 or 7 : 3 or 7 to 3

Arithmetic with Literal Equations February 2003(No Calculators)

1. $\frac{-b}{30}$

2. 5

3. $-3 \pm \frac{1}{2}b$

Arithmetic with Literal Equations February 2004

1. $\frac{-11}{3}$

2. 4080

3. 504

Arithmetic with Literal Equations February 2005(No Calculators)

1. $\frac{A - P}{\text{Pr}}$

2. 2006

3. $\frac{ap^2t - ap + a^2pt}{1 - at}$

Arithmetic with Literal Equations
February 2006(No Calculators)

1. $b = \frac{2A - Bh}{h}$

2. $\frac{2bx + 2by}{6y - 1}$

3. 4

Arithmetic with Literal Equations
February 2007(No Calculators)

1. 1

2. 2

3. 54

Arithmetic with Literal Equations
January 2008(No Calculators)

1. 7/9 or 7/9 ounces

2. 11 or r = 11

3. $\frac{m \pm \sqrt{m^2 - 4a}}{2}$

Trig Mechanics(No Calculators)
February 1994

1. $\frac{-3}{5}$

2. $200+200\sqrt{3}$

3. 250^{o}

Trig Mechanics(No Calculators)
February 1995

1. 9659

2. $50\sqrt{3}$

3. 1027

Trig Mechanics(No Calculators)
February 1996

1. $\frac{8\sqrt{65}}{65}$

2. 420*p*

3. 9450

Trig Mechanics(No Calculators)
February 1997

1. -318

2. 32.14

3. 83.8

Trig Mechanics
February 1999

1. $32^{o}43^{'}$

2. 1.2

3. 11.5

Trig Mechanics
February 2000

1. $6\sqrt{3}$

2. 64.3^{o}

3. 74.9

Trig Mechanics(Calculators)
February 2001

1. 108

2. $25^{o}5^{'}$

3. 50,714

Trig Mechanics(Calculators)
February 2002

1. 6.29

2. 63.7

3. 20

Trig Mechanics(Calculators)
February 2003

1. $3\sqrt{5}$

2. $148^{o}58^{'}$

3. 3.09

Trig Mechanics(Calculator)
February 2004

1. 143.239

2. 18.867

3. 46.8

Trig Mechanics(Calculator)
February 2005

1. $\frac{c}{a}$ *or* $\frac{\sqrt{a^2+b^2}}{a}$

2. 19

3. 6.4

Trig Mechanics(Calculator)
February 2006

1. 43.8

2. 198.2

3. 94.96

Trig Mechanics(Calculator)
February 2007

1. 104.6

2. 144.7

3. 521.1 mph, 175.6°

Trig Mechanics(Calculator)
January 2008

1. 5.3623

2. (-1.6180, 1.1756)

3. $39^{o}16^{'}21^{"}$

Logs and Log Equations
February 1989

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

2. 1

3. $\frac{3}{4}$

Logs and Log Equations
January 1990

1. $\frac{81}{100}$

2. $\frac{2}{3}$

3. $\frac{a+2b}{a+2b-1}$

Logs and Log Equations
February 1992

1.

2.

3.

Logs and Log Equations
February 1993

1.

2.

3.

Logs and Log Equations
February 1994

1. $\log_3 120$

2. 733.74

3. $7\sqrt[3]{7}$ *or* $7^{\frac{4}{3}}$

Logs and Log Equations
February 1995

1. $\frac{3}{10}$

2. 3.6

3. $\log 3y$ *or* $\log y$

Logs and Log Equations
February 1996

1. 16

2. 3.570

3. 64

Logs and Log Equations
February 1997

1.

2.

3.

Logs and Log Equations
February 1999

1. $\frac{17}{4}$

2. $\frac{3}{2}$

3. $\pm\frac{\sqrt{3}}{3}$

Logs and Log Equations
February 2000(No Calculators)

1. $\frac{4}{9}$

2. 0

3. 5

Logs and Log Equations
February 2001(No Calculators)

1. $\frac{7}{6}$

2. $\frac{2}{A}$

3. $100, \frac{1}{10}$

Logs and Log Equations
February 2002(No Calculators)

1. 3

2. 15.75

3. 7, -15

Logs and Log Equations
February 2003(No Calculators)

1. $-4\frac{1}{2}$

2. 1 or 100

3. $a = \sqrt{6}$

Logs and Log Equations
February 2004(No Calculators)

1. $.81R$

2. 2190

3. $5AB - 8A$

Logs and Log Equations
February 2005(No Calculators)

1. 2

2. $\frac{2}{3}$

3. $\left(\frac{\sqrt[3]{4}}{2} \text{ or } 2\sqrt{2}\right) \text{ or } \left(2^{-\frac{1}{3}} \text{ or } 2^{\frac{3}{2}}\right)$

Logs and Log Equations
February 2006(No Calculators)

1. 0

2. 6

3. $2k$

Logs and Log Equations
February 2007(No Calculators)

1. 1/3

2. .1761

3. $1+\sqrt{3}$

Logs and Log Equations
January 2008(No Calculators)

1. 6

2. $\frac{Y - Z - W}{10^X}$

3. 5 or B = 5

Linear Coordinate Geometry
February 1989

1. -26

2. $\pm\frac{9}{4}$

3. 2 *or* -3

Linear Coordinate Geometry
January 1990

1. $k=-2$

2. $\frac{5\sqrt{2}}{2}$

3. $3x+11y+2=0$ *and* $99x-27y-64=0$

Linear Coordinate Geometry
February 1992

1.

2.

3.

Linear Coordinate Geometry
February 1993

1.

2.

3.

Linear Coordinate Geometry
February 1994(No Calculators)

1. $y=\frac{5}{2}x$

2. $5\sqrt{5}$

3. $(-22,1),(8,-13),(10,7)$

Linear Coordinate Geometry
February 1995(No Calculators)

1. $5\frac{2}{5}$

2. $\left(4\frac{1}{5},3\right)$

3. $y=\frac{-3}{7}x+4\frac{4}{7}$

Linear Coordinate Geometry
February 1996(No Calculators)

1. -18

2. $-3\frac{1}{5}$

3. $(-5,6)$

Linear Coordinate Geometry
February 1997(No Calculators)

1. $(-9,-24)$

2. $y=3x+7$

3. $y=8x-32$ *or* $y=-4x-8$

Linear Coordinate Geometry
February 1999

1. $2x+y=8$

2. $2x-4y=-1$

3. $(3,2)$

Linear Coordinate Geometry
February 2000

1. $y=\frac{-4}{17}x+23$

2. $\left(\frac{7}{3},\frac{14}{3}\right)$

3. $5x+2y=7$

Linear Coordinate Geometry
February 2001(No Calculators)

1. $-\frac{1}{3}$

2. -48

3. $(65,27)$

Linear Coordinate Geometry
February 2002(No Calculators)

1. $-\frac{6}{5}$

2. $(-3,-1)$

3. $\left(\frac{8}{5},\frac{57}{5}\right)$

Linear Coordinate Geometry
February 2003(No Calculators)

1. -7

2. $(2,9)$

3. 128

Linear Coordinate Geometry
February 2004(No Calculators)

1. $y=\frac{5}{2}x+10$

2. $9x+11y=67$

3. $\frac{119}{5}$

Linear Coordinate Geometry
February 2005(No Calculators)

1. -24 *or* (0,-24)

2. $\frac{24}{13}$

3. $\frac{1+m}{1-m}$

Linear Coordinate Geometry
February 2006(No Calculators)

1. $-\frac{5}{3}$

2. $(16,26)$

3. $x+23y=40$

Linear Coordinate Geometry
February 2007(No Calculators)

1. $y=-\frac{2}{3}x+\frac{5}{3}$

2. (4, 4), (0, -6), (-10, 0)

3. $x-y=1$

Linear Coordinate Geometry
January 2008(No Calculators)

1. (-3, 2)

2. 4x + 3y = 16

3. 14x +112y = 115 and 64x – 8y = 275

Functions
February 1989
1. 13

2. $-\frac{1}{10}$

3. 52

Functions
January 1990
1. 7

2. $\frac{5}{3} \le x \le 4$

3. $t = -1$

Functions
February 1992
1.

2.

3.

Functions
February 1993
1.

2.

3.

Functions
February 1994
1. $A(x) = 180x - 2x^2$

2. $\frac{1 \pm \sqrt{37}}{2}$

3. $R(x) = 10^{-x}$

Functions
February 1995
1. $k = 6$

2. $h - 4$

3. $All\ \text{Re}als, x \neq 1$

Functions
February 1996
1. 1 *or* 5

2. $a = 3, b = -5, c = 6$

3. $f^{-1}(x) = \sqrt{x+2} + 1$

Functions
February 1997
1.

2.

3.

Functions
February 1999
1. $\frac{20}{27}$

2. -3

3. 6

Functions (No Calculators)
February 2000
1. $\frac{5}{8}$

2. 4

3. $All\ \text{Re}als, x \neq -1, \pm 2, 3$

Functions(No Calculators)
February 2001
1. $\frac{1}{3}$

2. $\frac{1}{8}$

3. -25

Functions(No Calculators)
February 2002

1. $All\ \text{Re}als,\ x \geq 2$

2. $\frac{-5}{2}$

3. $9x^2 + 42x + 51$

Functions(No Calculators)
February 2003

1. 2003

2. 1

3. $a = -d$

Functions(No Calculators)
February 2004

1. 6

2. $f^{-1}(x) = \frac{10x+5}{x-1}$

3. $-\sqrt{34} \leq x \leq -3\ or\ 3 \leq x \leq \sqrt{34}$

Functions(No Calculators)
February 2005

1. 42

2. $8 - \frac{1}{2}h$

3. *no solution*

Functions(No Calculators)
February 2006

1. $All\ \text{Re}als \geq 9$

2. $\frac{-1}{3}$

3. 5

Functions(No Calculators)
February 2007

1. All reals ≥ -4

2. *a*

3. 65,537

Functions(No Calculators)
January 2008

1. $-3 \leq x \leq 3$

2. 3 or A = 3

3. All Reals ≥ 0