Algebra (Q 2 & 3, Paper 1)

Lesson No. 2: Linear Equations

2007

3 (a) Solve $2x = 3(5 - x)$.

2005

2 (c) (i) Write $\sqrt{x} + \frac{1}{\sqrt{x}}$ as a single fraction.

(ii) Hence, or otherwise, simplify $\left(\frac{2\sqrt{x}}{1+x}\right)\left(\sqrt{x} + \frac{1}{\sqrt{x}}\right)$.

(iii) Solve for x

$$\left(\frac{2\sqrt{x}}{1+x}\right)\left(\sqrt{x} + \frac{1}{\sqrt{x}}\right) = x - 3.$$

2004

3 (a) Solve for x

$$2x = 3(5 - x).$$

2002

2 (a) Solve for x: $\frac{x-7}{2} = \frac{x+3}{6}$.

1999

2 (a) Solve for x

$$2(x + 8) = 7x.$$

1997

2 (a) Solve for x

$$3(2x - 1) = 4x.$$

Answers

2007 3 (a) $x = 3$

2005 2 (c) (i) $\frac{x+1}{\sqrt{x}}$ (ii) 2 (iii) $x = 5$

2004 3 (a) $x = 3$

2002 2 (a) $x = 12$

1999 2 (a) $\frac{16}{5}$

1997 2 (a) $\frac{3}{2}$