Equations involving algebraic fractions

**1.** (a) Show that the equation



can be rearranged to give 3*x*2 + 7*x* – 13 = 0

(3)

(b) Solve 3*x*2 + 7*x* – 13 = 0  
Give your solutions correct to 2 decimal places.

*x* = ............................... or *x* = ................................

(3)

(Total 6 marks)

**2.** Solve the equation



*x* = .................................

(Total 5 marks)

**3.** (a) Solve + ** = 2

*x=*.....................................

(2)

(b) Using your answer to part (a), or otherwise,

solve 

*y =* .....................................

or *y =* .....................................

(3)

(Total 5 marks)

**4.** Solve the equation



*x* = .....................................

(Total 4 marks)