A26a/b/c Further Simultaneous Equations

1) Solve $3x + y = 11$
$4x - y = 3$

2) Solve $2x - 5y = 3$
$4x + 5y = 21$

3) Solve $x - 2y = 3$
$3x + 2y = 5$

4) Solve $x + 3y = 10$
$x + y = 6$

5) Solve $3x + 2y = 3$
$2x + 2y = 5$

6) Solve $5x - 3y = 23$
$2x - 3y = 11$

7) Solve $3x - 2y = 6$
$x + y = 7$

8) Solve $6x + y = 10$
$2x - 3y = 10$

9) Solve $2x + 7y = 11$
$3x - 2y = 4$

10) Solve $4x + 3y = 9$
$5x + 2y = 13$

11) Solve $2x + 3y = -7$
$7x - 2y = -12$

12) Solve $3x - 2y = 5$
$9x + 5y = -7$

13) In the first week of opening, a zoo sold 200 adult tickets and 300 child tickets. The takings for that week were £2600.
In the second week, 500 adult tickets were sold and 400 child tickets were sold. The takings for the second week were £5100.
Form two equations and solve them to find the price of an adult ticket and the price of a child ticket.

14) If you multiply Sid's age by four and Tony's age by five and add the answers together it comes to 259 years.
However, if you multiply Sid's age by seven and then take away two times Tony's age the answer is 120 years.
Form two equations and solve them to find the ages of Sid and Tony.

15) If nine rats and seven ferrets cost £116.75 and four rats and six ferrets cost £88, how much would five rats and four ferrets cost?

16) If a mouse and a goldfish cost £1.10 and the mouse costs £1 more than the goldfish, how much does the goldfish cost?