



Name: \_\_\_\_\_



Solve the following simultaneous equations:

a)  $y = x^2$   
 $y + 5x - 14 = 0$

b)  $y = x^2$   
 $4x + y = 45$

c)  $y + x = 5$   
 $6x + y^2 = 22$

d)  $y = x + 3$   
 $y^2 + x^2 = 9$


e)  $y = x + 1$   
 $y^2 + 3x - 15 = 0$

f)  $y = 2 - 3x$   
 $y^2 - 5x^2 = -4$

Solve the following simultaneous equations (giving your answers to 1 decimal place):

g)  $y = x^2$  and  $y + 4x - 7 = 0$

h)  $y = 3 - x$  and  $y^2 - 2x = 15$

 Exam question:

A line with equation  $y = 2x + 5$  intersects a circle with equation  $x^2 + y^2 = 10$   
Find the co-ordinates of two intersecting points

