Name:



Solve the following simultaneous equations:	
a) $y = x^2$ y + 5x - 14 = 0	b) $y = x^2$ 4x + y = 45
x = -7, y = 49	x = -9, y = 81
or	or
x = 2, y = 4	x = 5, y = 25
c) $y + x = 5$ $6x + y^2 = 22$	(d) $y = x + 3$ $y^2 + x^2 = 9$
x = 1, y = 4	x = -3, y = 0
or	or
x = 3, y = 2	x = 0, y = 3
e) $y = x + 1$ $y^2 + 3x - 15 = 0$	f) $y = 2 - 3x$ $y^2 - 5x^2 = -4$
x = -7, y = -6	x = 1, y = -1
or	or
x = 2, y = 3	x = 2, y = -4

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

g) $y = x^2$ and y + 4x - 7 = 0x = -5.3, y = 28.3 or x = 1.3, y = 1.7 h) y = 3 - x and $y^2 - 2x = 15$ x = -0.7, y = 3.7 or x = 8.7, y = -5.7

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

(-3, -1) and (-1, 3)

