Name:

Solve the following simultaneous equations (graphically):

a) $y = x + 2$ and $y = 2x$

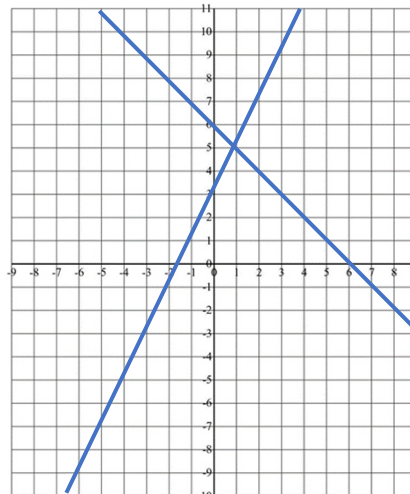| x	-2	-1	0	1	2	3
y	0	1	2	3	4	5
y	-4	-2	0	2	4	6
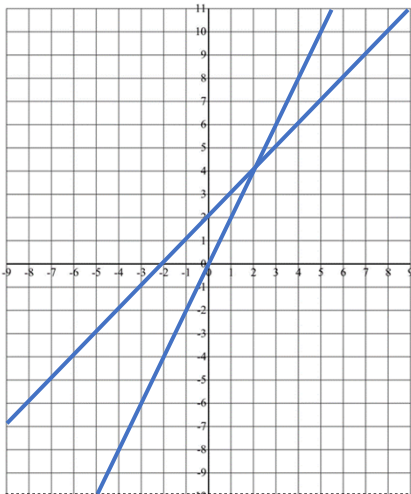
x = 2, y = 4

b) $y = 2x + 3$ and $y = 6 - x$

x	-1	0	1	2	3	4
y	1	3	5	7	9	11
y	7	6	5	4	3	2

x = 1, y = 5

c) $y = x - 1$ and $y = 2x - 4$

x	-2	-1	0	1	2	3
y	-3	-4	-3	-2	-1	0
y	-8	-6	-4	-2	0	2
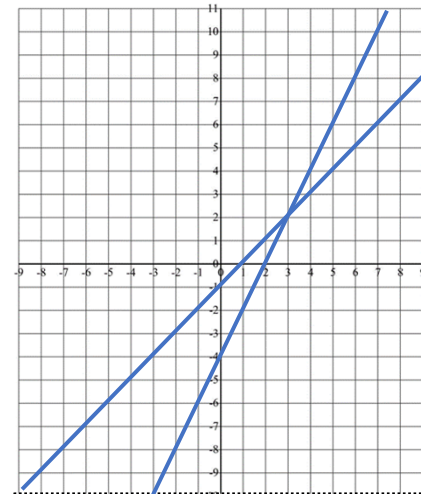
x = 3, y = 2

d) $y = -x - 2$ and $y = 3x + 6$

x	-2	-1	0	1	2	3
y	0	-1	-2	-3	-4	-5
y	0	3	6	9	12	15
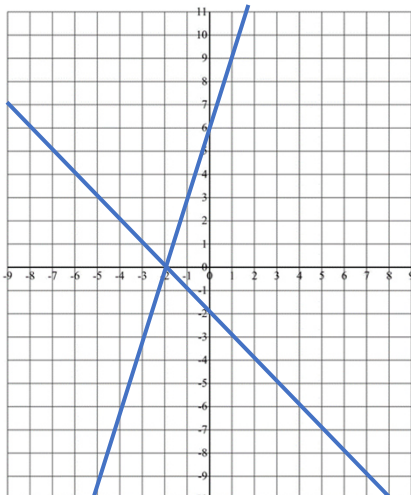
x = -2, y = 0

e) $y = -2x - 4$ and $x + 2y = 1$

x	-2	-1	0	1	2	3
y	0	-2	-4	-6	-8	-10
y	1.5	1	0.5	0	-0.5	-1
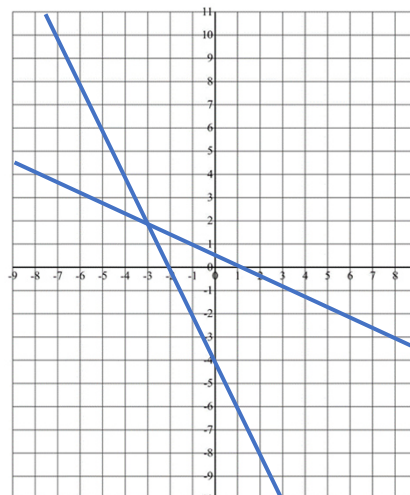
x = -3, y = 2

f) $y = 0.5x$ and $y = -7 - 3x$

x	-2	-1	0	1	2	3
y	-1	-0.5	0	0.5	1	1.5
y	-1	-4	-7	-10	-13	-16
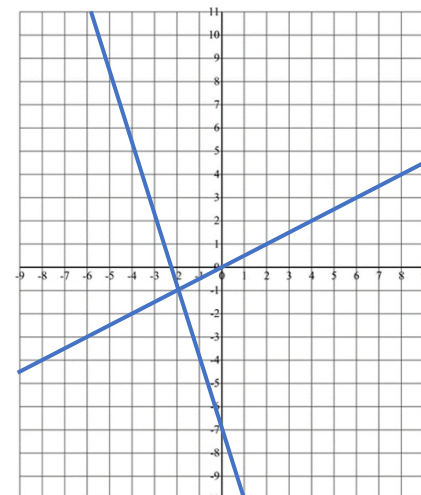
x = -2, y = -1

Exam question:

Solve the following two equations simultaneously by plotting the graphs:

$y = 4 - x$ and $y = 2x - 2$

x = 2, y = 2