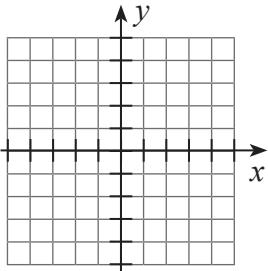# Linear and non-linear relationships

Topic 2: Graphing linear relationships

QUESTION **1**   Complete the following tables of values and then graph the equation on the number plane.
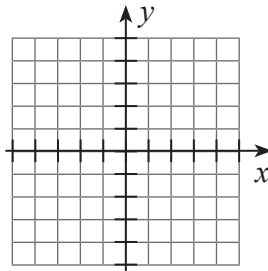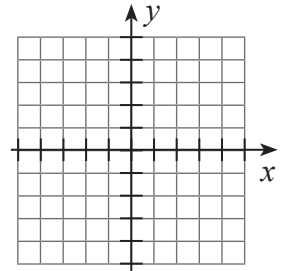
a $y = x + 3$

x	−1	0	1	2
y				

b $y = 2x - 1$

x	−1	0	1	2
y				

c $y = -x + 1$

x	−1	0	1	2
y				

QUESTION **2**   Complete each table of values and then graph the equation on the number plane.

a $x = 3$

x				
y	0	1	2	3
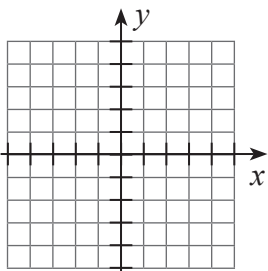
b $y = 2$

x	0	1	2	3
y				
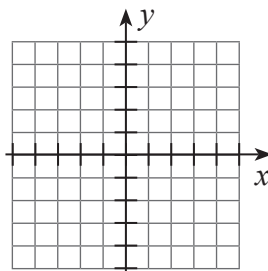
c $y = x$

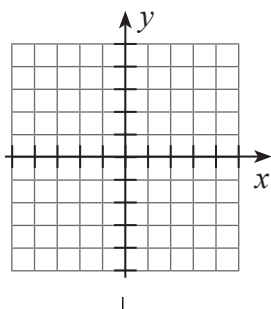| x	0	1	2	3
y				
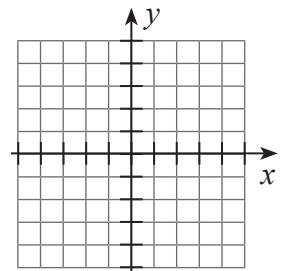
QUESTION **3**   On the same number plane, graph the following equations by first completing the tables of values. Find their point of intersection.

a $y = x$

x	−1	0	1	2
y				

$y = -x$

x	−1	0	1	2
y				

b $y = x + 2$

x	−1	0	1	2
y				

$y = 2x + 1$

x	−1	0	1	2
y				