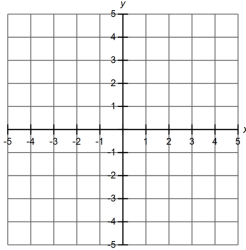


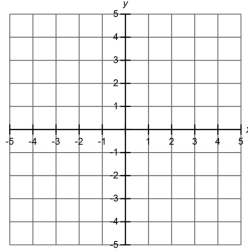
I can.....

1 Plot the graphs of

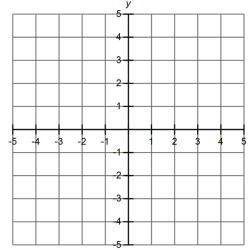
a) $x = 4$



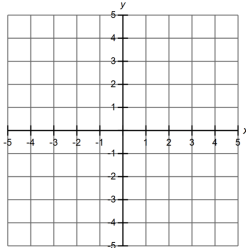
b) $y = 2$



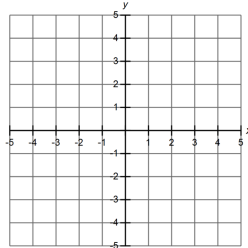
c) $x = -3$



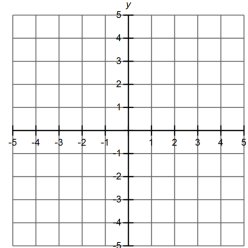
d) $y = -2$



e) $y = 0$



f) $x = 1$



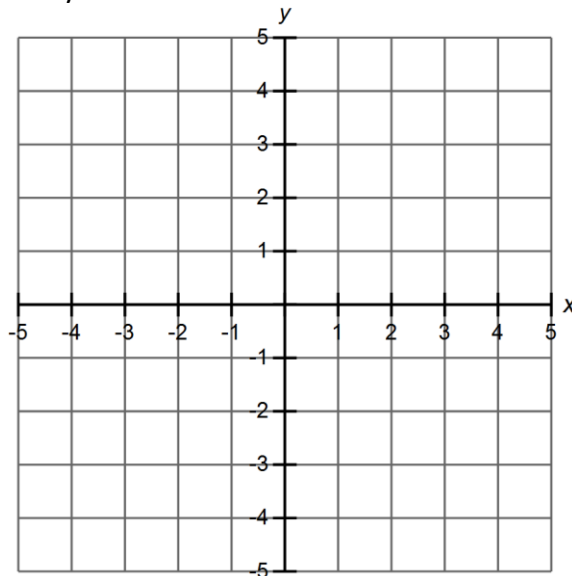
★
Plot graphs of
the form $x = a$,
 $y = b$



2 a) Complete the table of values for $y = 4x - 3$

x	-3	-2	-1	0	1	2	3	4
y								

b) Plot the graph of $y = 4x - 3$



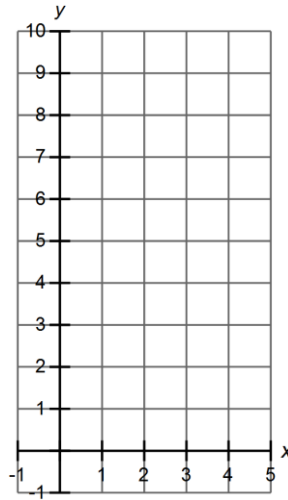
★
Complete a
table of values
needed to plot a
graph of a linear
function



3 a) Complete the table of values for $y = 10 - 2x$

x	-3	-2	-1	0	1	2	3	4
y								

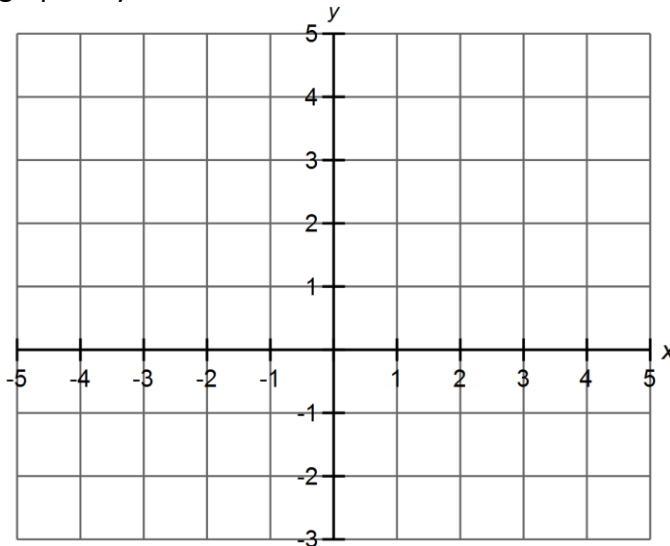
b) Plot the graph of $y = 10 - 2x$



4 a) Complete the table of values for $y = x^2 - 2$

x	-3	-2	-1	0	1	2	3	4
y								

b) Plot the graph of $y = x^2 - 2$



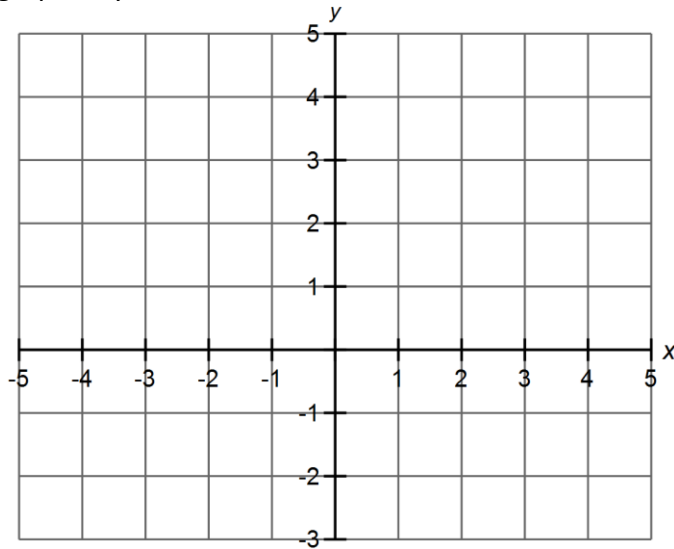
★★
Complete a
table of values
needed to plot a
graph of a
quadratic
function



5 a) Complete the table of values for $y = x^2 + x$

x	-3	-2	-1	0	1	2	3	4
Y								

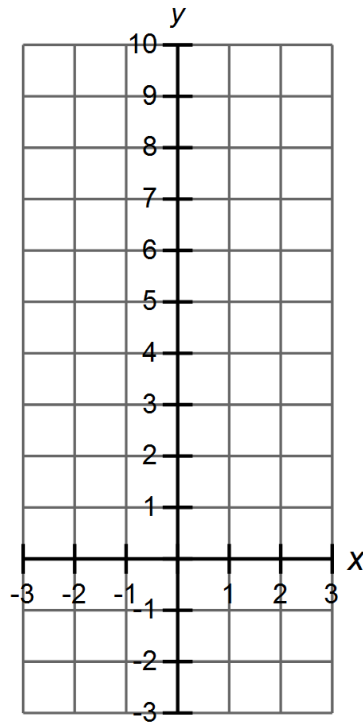
b) Plot the graph of $y = x^2 + x$



6 a) Complete the table of values for $y = x^3 + 4$

x	-3	-2	-1	0	1	2	3
Y							

b) Plot the graph of $y = x^3 + 4$



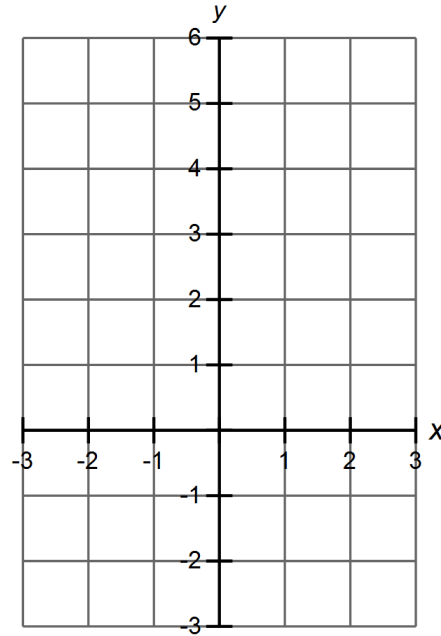
★★★
Complete a
table of values
to plot a graph
of a cubic
function



7 a) Complete the table of values for $y = x^3 - x^2$

x	-3	-2	-1	0	1	2	3	4
Y								

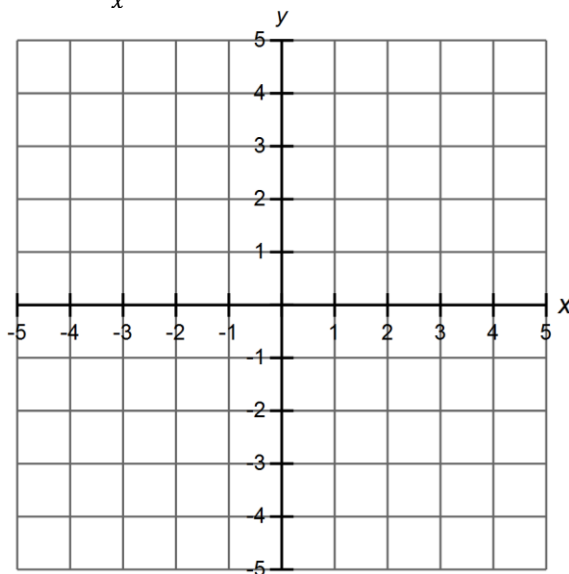
b) Plot the graph of $y = x^3 - x^2$



8 a) Complete the table of values for $y = \frac{1}{x}$

x	-3	-2	-1	0	1	2	3	4
Y								

b) Plot the graph of $y = \frac{1}{x}$



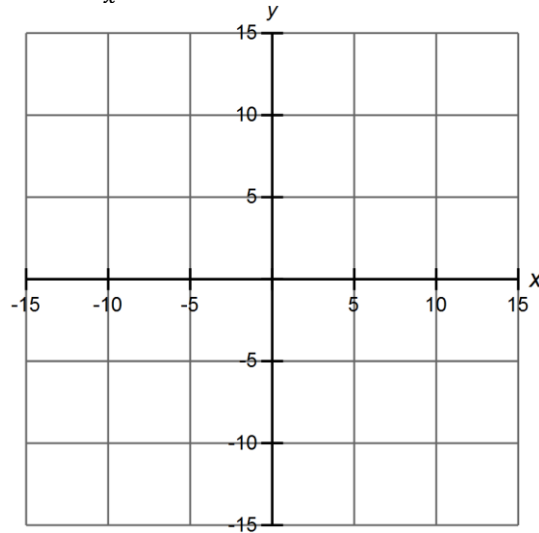
★★★
Complete a
table of values
to plot a graph
of a reciprocal
function



9 a) Complete the table of values for $y = \frac{30}{x}$

x	-3	-2	-1	0	1	2	3	4
Y								

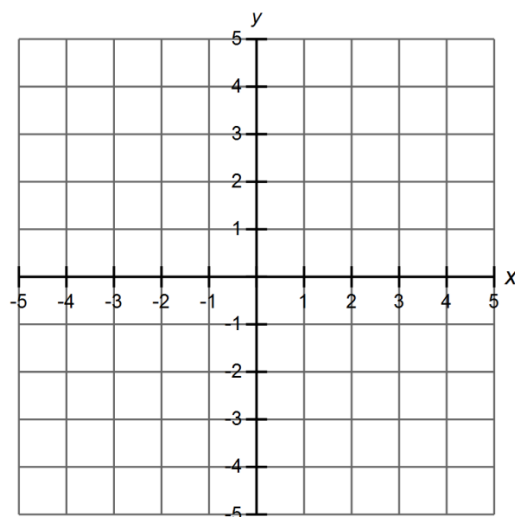
b) Plot the graph of $y = \frac{30}{x}$



10 a) Complete the table of values for $y = x^2 - 4x$

x	-1	0	1	2	3	4	5	6
Y								

b) Plot the graph of $y = x^2 - 4x$



c) Write down the coordinates of the turning point of the graph

d) Write down the coordinates of the points where the graph crosses the x-axis

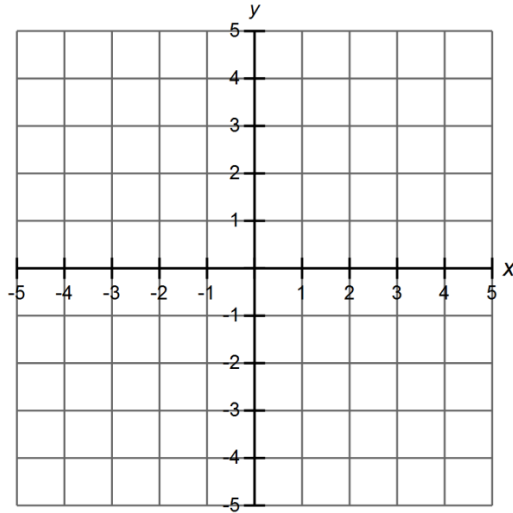
★★★
Identify the intercepts and turning points of graphs of quadratic functions.



11 a) Complete the table of values for $y = x^2 + 2x - 3$

x	-4	-3	-2	-1	0	1	2
Y							

b) Plot the graph of $y = x^2 + 2x - 3$



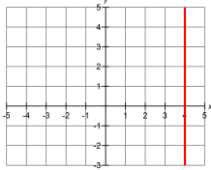
c) Write down the coordinates of the turning point of the graph

d) Write down the coordinates of the points where the graph crosses the x-axis

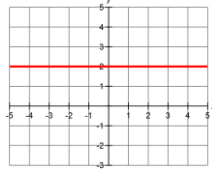


1 Plot the graphs of

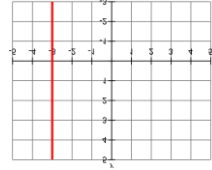
a) $x = 4$ ✓



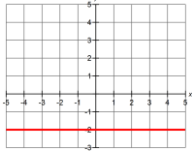
b) $y = 2$ ✓



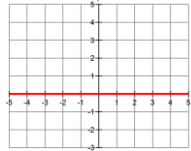
c) $x = -3$ ✓



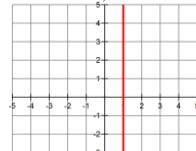
d) $y = -2$ ✓



e) $y = 0$ ✓



f) $x = 1$ ✓

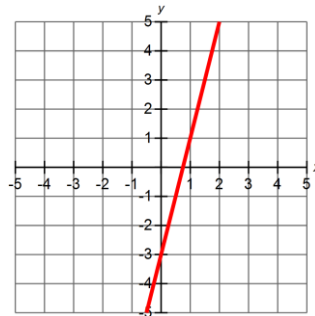


★
Plot graphs of the form $x = a, y = b$

2 a) Complete the table of values for $y = 4x - 3$ ✓✓

x	-3	-2	-1	0	1	2	3	4
y	-15	-11	-7	-3	1	5	9	13

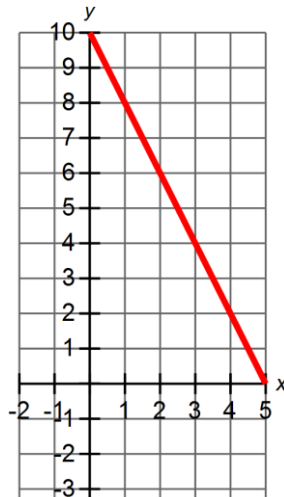
b) Plot the graph of $y = 4x - 3$ ✓✓



3 a) Complete the table of values for $y = 10 - 2x$ ✓✓

x	-3	-2	-1	0	1	2	3	4
y	16	14	12	10	8	6	4	2

b) Plot the graph of $y = 10 - 2x$ ✓✓

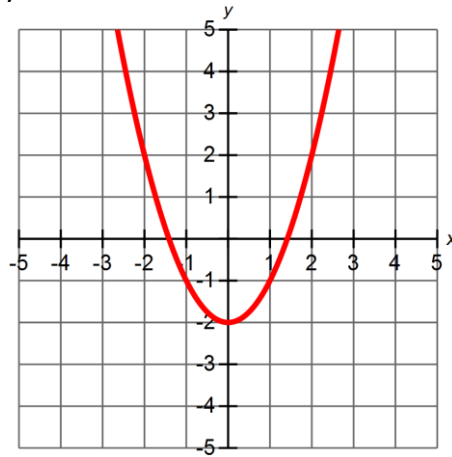


★
Complete a table of values needed to plot a graph of a linear function

4 a) Complete the table of values for $y = x^2 - 2$ ✓✓

x	-3	-2	-1	0	1	2	3	4
y	7	2	-1	-2	-1	2	7	14

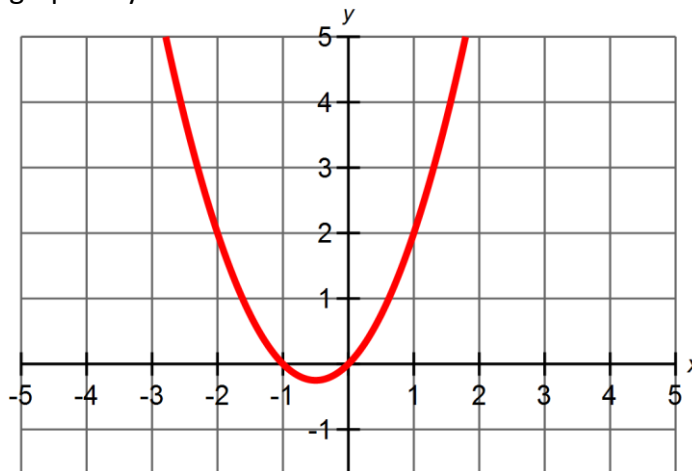
b) Plot the graph of $y = x^2 - 2$ ✓✓



5 a) Complete the table of values for $y = x^2 + x$ ✓✓✓

x	-3	-2	-1	0	1	2	3	4
y	6	2	0	0	2	6	12	20

b) Plot the graph of $y = x^2 + x$ ✓✓✓



6 a) Complete the table of values for $y = x^3 + 4$ ✓✓

x	-3	-2	-1	0	1	2	3
y	-24	-4	3	4	5	12	31

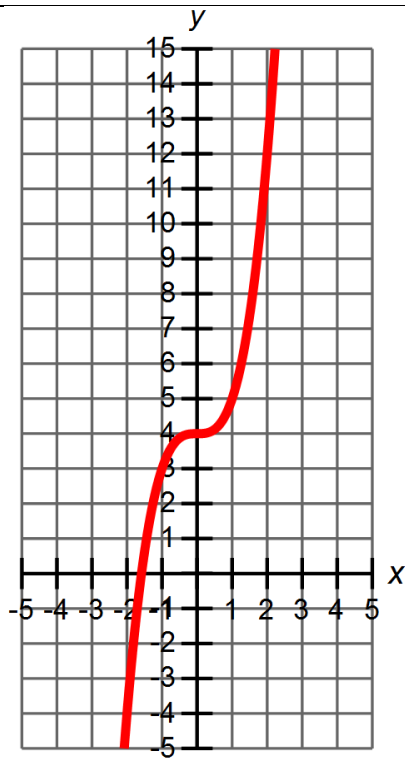
b) Plot the graph of $y = x^3 + 4$ ✓✓

★★

Complete a table of values needed to plot a graph of a quadratic function

★★★

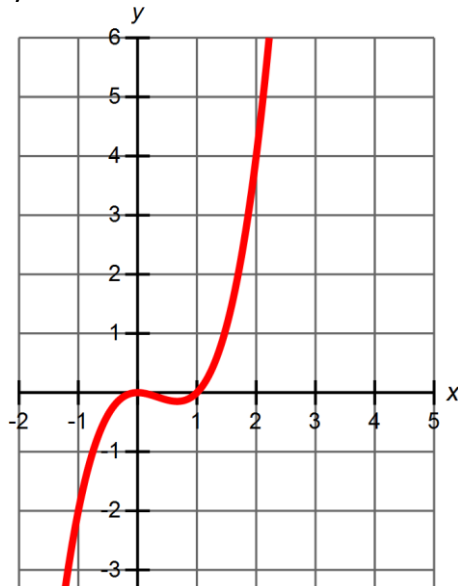
Complete a table of values to plot a graph of a cubic function



7 a) Complete the table of values for $y = x^3 - x^2$ ✓✓✓✓

x	-3	-2	-1	0	1	2	3	4
y	-36	-12	-2	0	0	4	18	48

b) Plot the graph of $y = x^3 - x^2$ ✓✓✓✓

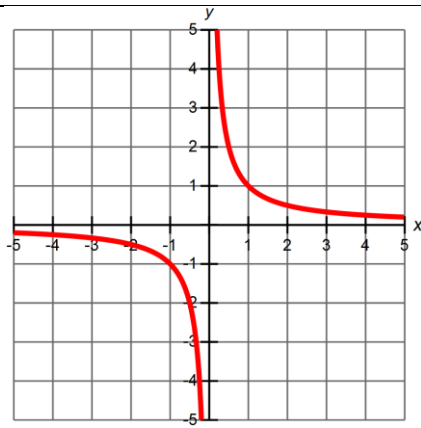


8 a) Complete the table of values for $y = \frac{1}{x}$ ✓✓

x	-3	-2	-1	0	1	2	3	4
y	-1/3	-1/2	-1		1	1/2	1/3	1/4

b) Plot the graph of $y = \frac{1}{x}$ ✓✓

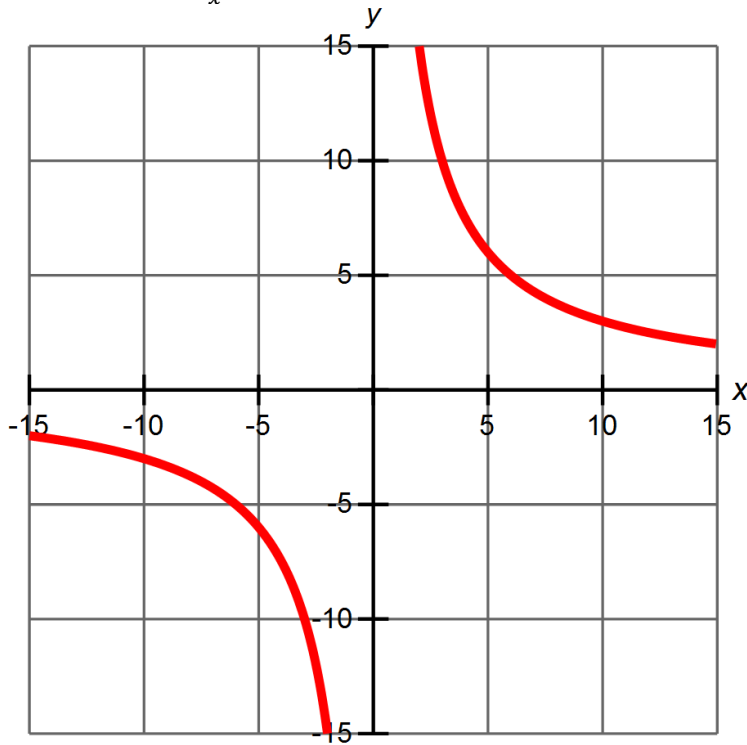
★★★
Complete a table of values to plot a graph of a reciprocal function



9 a) Complete the table of values for $y = \frac{30}{x}$ ✓✓✓

x	-3	-2	-1	0	1	2	3	4
y	-10	-15	-30		30	15	10	7.5

b) Plot the graph of $y = \frac{30}{x}$ ✓✓✓

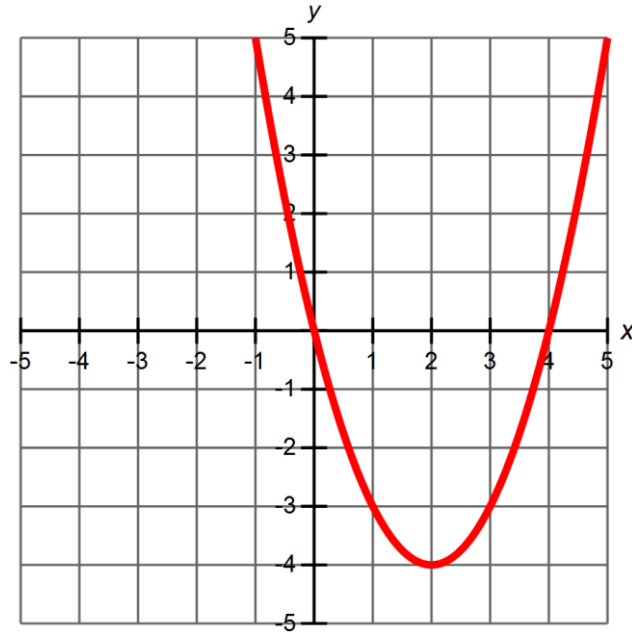


10 a) Complete the table of values for $y = x^2 - 4x$ ✓✓✓

x	-1	0	1	2	3	4	5	6
y	5	0	-3	-4	-3	0	5	12

★★★
Identify the intercepts
and turning points of
graphs of quadratic
functions.

b) Plot the graph of $y = x^2 - 4x$ ✓✓✓



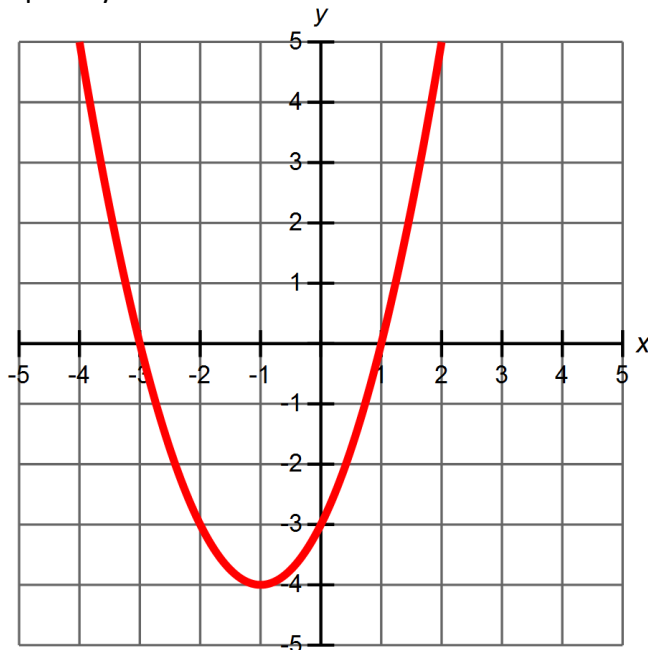
c) Write down the coordinates of the turning point of the graph $(2, -4)$ ✓

d) Write down the coordinates of the points where the graph crosses the x-axis $(0,0)$ and $(4,0)$ ✓✓

11 a) Complete the table of values for $y = x^2 + 2x - 3$ ✓✓✓✓

x	-4	-3	-2	-1	0	1	2
y	5	0	-3	-4	-3	0	5

b) Plot the graph of $y = x^2 + 2x - 3$ ✓✓✓



c) Write down the coordinates of the turning point of the graph $(-1, -4)$ ✓

d) Write down the coordinates of the points where the graph crosses the x-axis $(-3,0)$ and $(1,0)$ ✓✓

60 marks