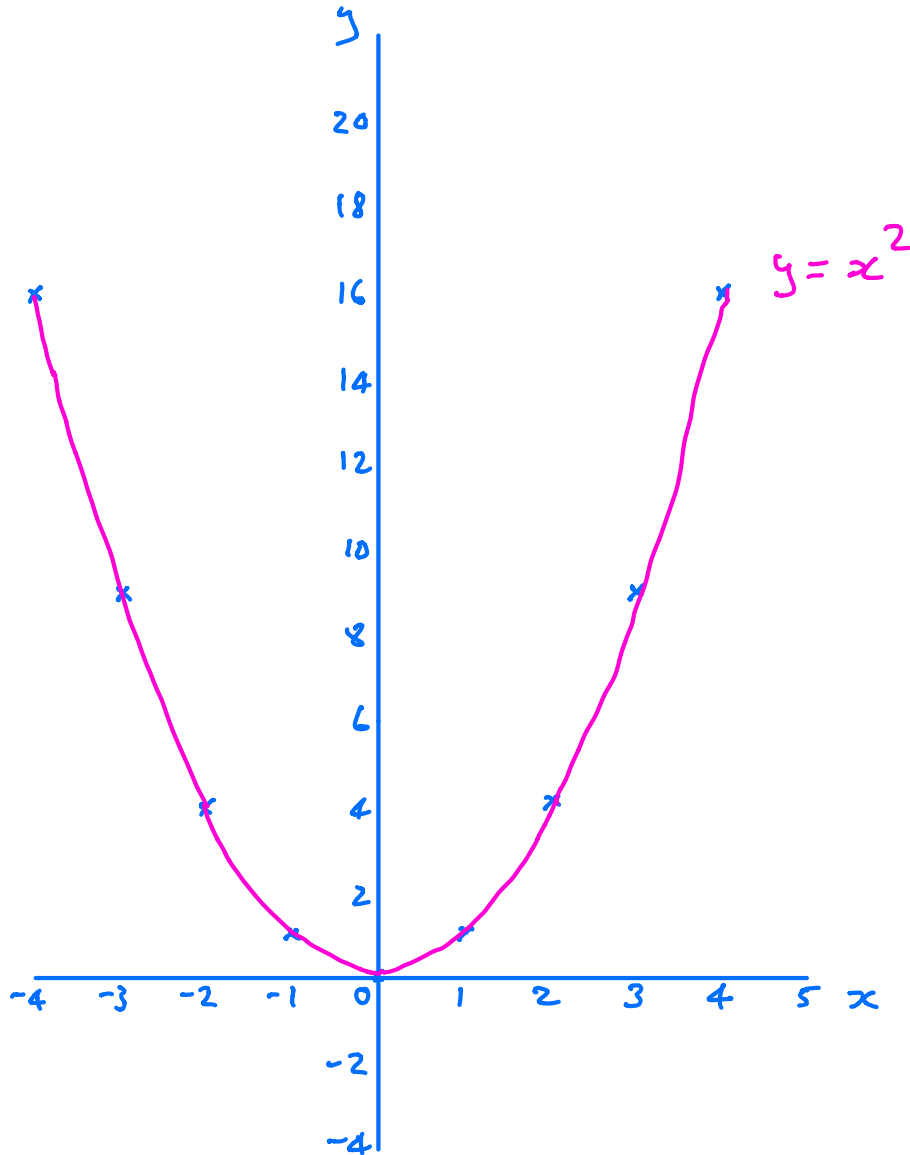


Quadratic Graphs

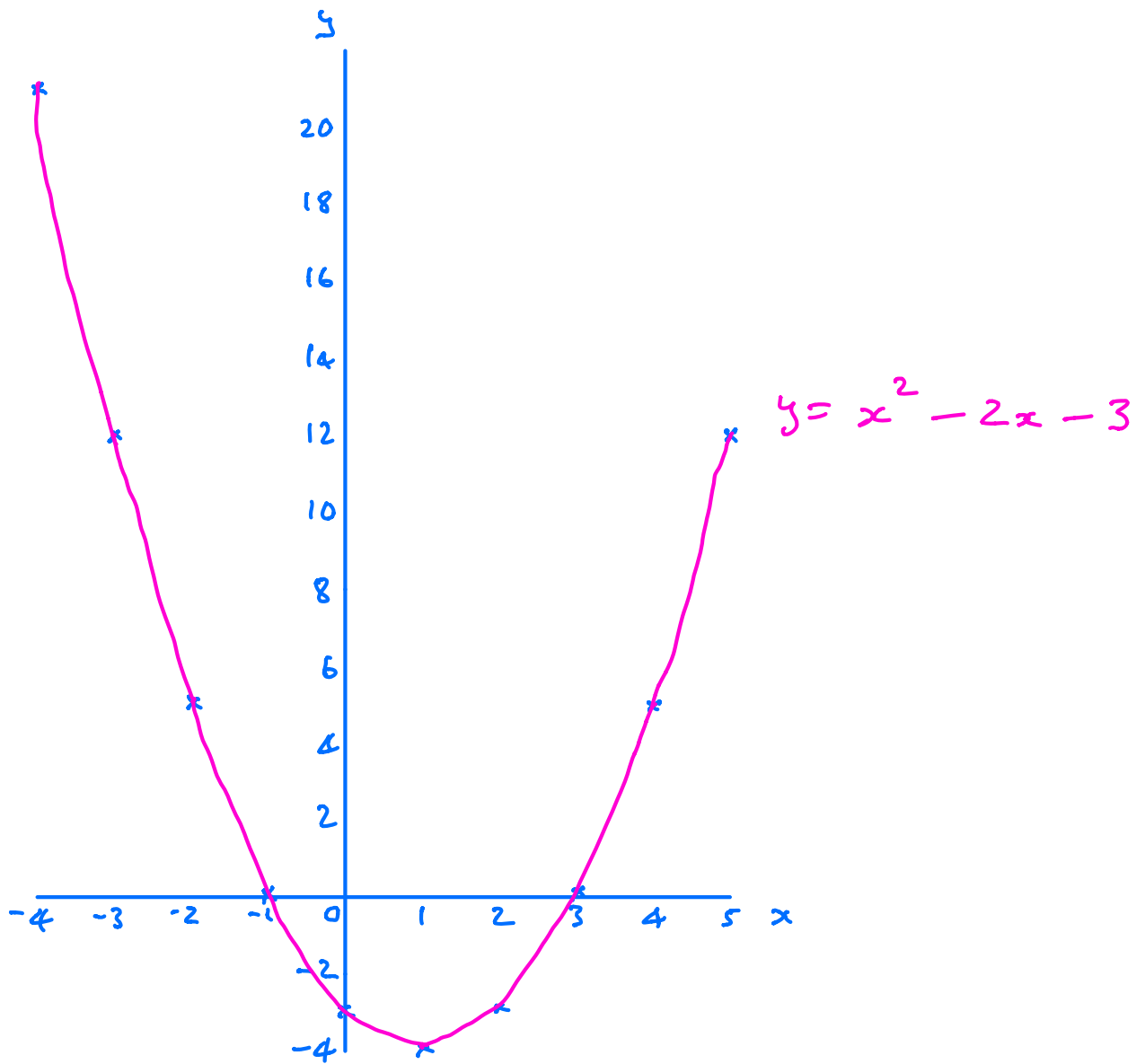
$$y = x^2$$

x	-4	-3	-2	-1	0	1	2	3	4	5
y	16	9	4	1	0	1	4	9	16	25



$$y = x^2 - 2x - 3$$

x	-4	-3	-2	-1	0	1	2	3	4	5
x^2	+16	+9	+4	+1	0	+1	+4	+9	+16	+25
$-2x$	+8	+6	+4	+2	0	-2	-4	-6	-8	-10
-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3
y	21	12	5	0	-3	-4	-3	0	5	12



$$y = x^2 - 3x$$

x	-4	-3	-2	-1	0	1	2	3	4	5
y	25	18	10	4	0	-2	-2	0	4	10

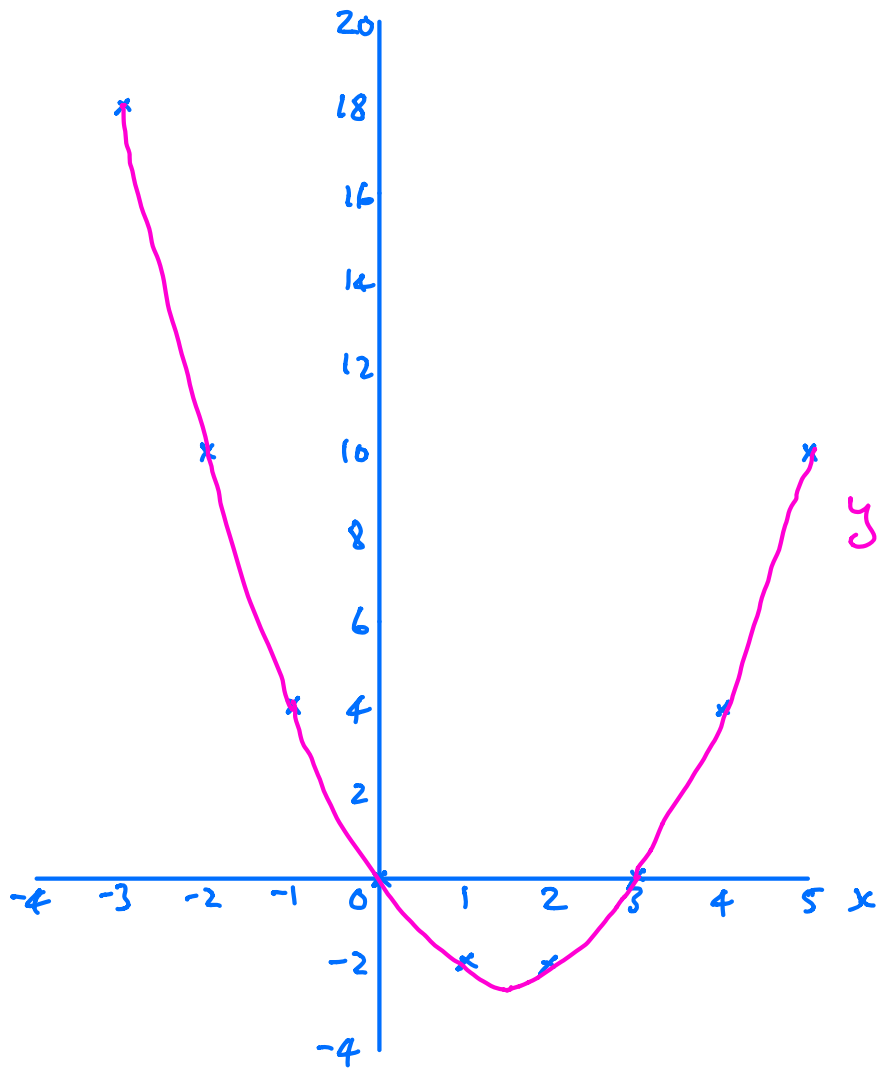
Complete table of values

$$\begin{aligned} y &= (-3)^2 - 3(-3) \\ &= 9 + 9 \\ &= 18 \end{aligned}$$

$$\begin{aligned} y &= 3^2 - 3(3) \\ &= 9 - 9 \\ &= 0 \end{aligned}$$

$$\begin{aligned} y &= 5^2 - 3(5) \\ &= 25 - 15 \\ &= 10 \end{aligned}$$

y



Need to extend
curve below -2
It does not have
a flat bottom

$$y = x^2 - 3x$$

$$y = x^3$$

x	-3	-2	-1	0	1	2	3
y	-27	-8	-1	0	1	8	27

