



Section A Work out the value of each function.

$$f(x) = 3x - 4$$

$$g(x) = x^2 + 2x - 5$$

$$h(x) = \frac{x}{2}$$

Functions	Solution
1) $f(2)$	2
2) $g(5)$	30
3) $h(13)$	6.5
4) $g(3)$	10
5) $f(-4)$	-16
6) $g(-1)$	-6
7) $h(-9)$	-4.5
8) $f\left(\frac{1}{2}\right)$	-2.5
9) $g\left(\frac{1}{2}\right)$	$-\frac{15}{4}$
10) $h\left(2\frac{4}{11}\right)$	$\frac{13}{11}$



Section B Solve for x.

$f(x) = x^2$	Solutions for x
1) $f(x) = 81$	9 or -9
2) $f(x) = 225$	15 or -15
3) $f(x) = \frac{4}{9}$	$\frac{2}{3}$ or $-\frac{2}{3}$

$f(x) = \frac{2x - 11}{4}$	Solutions for x
1) $f(x) = 90$	$\frac{371}{2}$
2) $f(x) = 135$	$\frac{551}{2}$
3) $f(x) = 39$	$\frac{167}{2}$

$f(x) = \sqrt{x}$	Solutions for x
1) $f(x) = 2$	4
2) $f(x) = 7$	49
3) $f(x) = \frac{3}{5}$	$\frac{9}{25}$

$f(x) = (x - 1)^2$	Solutions for x
1) $f(x) = 25$	6 or -4
2) $f(x) = 144$	13 or -11
3) $f(x) = \frac{16}{81}$	$\frac{13}{9}$ or $\frac{5}{9}$