



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) $g(5)$ | |
| 3) $h(13)$ | |
| 4) $g(3)$ | |
| 5) $f(-4)$ | |
| 6) $g(-1)$ | |
| 7) $h(-9)$ | |
| 8) $f\left(\frac{1}{2}\right)$ | |
| 9) $g\left(\frac{1}{2}\right)$ | |
| 10) $h\left(2\frac{4}{11}\right)$ | |



Section B Solve for x .

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

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

| $f(x) = \sqrt{x}$ | Solutions for x |
|-------------------------|-------------------|
| 1) $f(x) = 2$ | |
| 2) $f(x) = 7$ | |
| 3) $f(x) = \frac{3}{5}$ | |

| $f(x) = (x - 1)^2$ | Solutions for x |
|---------------------------|-------------------|
| 1) $f(x) = 25$ | |
| 2) $f(x) = 144$ | |
| 3) $f(x) = \frac{16}{81}$ | |