1.  $f(w) = \frac{8}{11w - 10}$  When determining the domain of this function, we need to keep in mind the following:

- denominator of a fraction cannot be 0, so  $11w 10 \neq 0$ ;
- so  $11w \neq 10$ ;
- so  $w \neq \frac{10}{11}$ .

Hence, the domain of this function is  $(-\infty,\frac{10}{11}) \cup (\frac{10}{11},\infty)$  , i.e.  $w \neq \frac{10}{11}$  .

**2.**  $f(x) = \frac{-9}{5x - 11}$ 

When determining the domain of this function, we need to keep in mind the following:

- denominator of a fraction cannot be 0, so  $5x 11 \neq 0$ ;
- so  $5x \neq 11$ ;
- so  $x \neq \frac{11}{5}$ .

Hence, the domain of this function is  $(-\infty, \frac{11}{5}) \cup (\frac{11}{5}, \infty)$ , i.e.  $x \neq \frac{11}{5}$ .

3.  $f(x) = \frac{-7}{x^2 + 11}$ 

When determining the domain of this function, we need to keep in mind the following:

- denominator of a fraction cannot be 0, so  $x^2 + 11 \neq 0$ ;
- so  $x^2 \neq -11$ ;
- we can square any number and result will always be a positive number or 0.

Hence, the domain of this function is  $(-\infty, \infty)$ , i.e. any value of x can be substituted into f.