Conditions

find the following and state the domain:

$$f + g$$

Solution

We can find the following only for those values of these functions, for which they exist.

It's obvious, that these are the points 1 and 3, because for points 2 and 4 we have no value for g, for point 5 we have no value for f. The domain of the function is a set of all values for which it is exist. That's why:

$$f + g(1) = 2 + (-2) = 0$$
; $f + g(3) = 4 + (-3) = 1$. The domain of $f + g$ is 1 and 3