

9. The functions f and g are:

$$f(x) = x + 4, \quad x \geq 10$$

$$g(x) = \frac{20}{x - 5}, \quad x \geq 6$$

- (a) Find an expression for the composite function $fg(x)$, stating its domain and range.

(7)

The domain of $g(x)$ is now changed to $x < p$.

- (b) Find the largest value of p where the composite function $gf(x)$ cannot be formed.

(4)