5 The functions f and g are:

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

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

5(a) Find an expression for the composite function $fg(x)$, stating its domain and range. **[7 marks]**

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

5(b) Find the largest value of p where the composite function $gf(x)$ cannot be formed. **[4 marks]**