

KEY

Algebraic Simplification Exercise 100200324

$$\text{For } x \neq 8, \quad \frac{(x-1)(x-8)}{x-8}$$

$$= \left(\frac{(x-8)}{(x-8)} \right) (x-1) = 1 \cdot (x-1) = x-1.$$

Therefore, for $x=9$,

$$f(x) = f(9) = 9-1 = 8.$$

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