

KEY

Algebraic Simplification Exercise 100200323

$$\text{For } x \neq 10, \quad \frac{(x-2)(x-10)}{x-10}$$

$$= \left(\frac{(x-10)}{(x-10)} \right) (x-2) = 1 \cdot (x-2) = x-2,$$

Therefore, for $x=5$,

$$f(x) = f(5) = 5-2 = 3.$$

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