Find the value of the constant c that makes the following function continuous on $(-\infty, \infty)$.

$$f(s) = \begin{cases} cs + 8, & \text{if } s \in (-\infty, 5], \\ cs^2 - 8, & \text{if } s \in (5, \infty). \end{cases}$$

$c =$ $\square$

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