

$$11b) \quad \omega = 2\pi f \Rightarrow \underline{T} = \frac{\boxed{1}}{1 + j \boxed{2\pi RC f}} \Rightarrow \boxed{\frac{f}{f_c} = \frac{1}{2\pi RC}}$$

Handwritten annotations:

- A red box around the numerator '1' has an arrow pointing to a red box labeled $T_0 = 1$.
- A red box around the term $2\pi RC f$ has an arrow pointing to a red box labeled $\frac{1}{f_c}$.