20152 Given that $N=100+80 e^{k t}$, which expression is equal to $\frac{d N}{d t}$ ?
(A) $k(100-N)$
(B) $k(180-N)$
(C) $k(N-100)$
(D) $k(N-180)$

C
As $N=100+80 e^{k t}$, then $N-100=80 e^{k t}$.

$$
\text { Now, } \frac{d N}{d t}=k .80 e^{k t}
$$

$$
=k(N-100)
$$

* These solutions have been provided by projectmaths and are not supplied or endorsed by BOSTES.

