

27 A photon of light has frequency  $f$ , momentum  $p$ , and speed  $c$ . The Planck constant is  $h$ .

Which expressions for the momentum and the energy of the photon are correct?

	momentum	energy
A	$hf$	$pc$
B	$hf$	$\frac{pc}{2}$
C	$\frac{hf}{c}$	$pc$
D	$\frac{hf}{c}$	$\frac{pc}{2}$

28 An electron in an atom transitions from -25.0 eV to -80.0 eV. A photon is emitted in the process.