$$F = \frac{9}{5}(K - 273) + 32$$

In order to convert a temperature in Kelvin, K, into a temperature in degrees Fahrenheit, F, the equation above can be used. Which of the following equations correctly expresses the temperature in Kelvin in terms of the temperature in degrees Fahrenheit?

B
$$K = \left(\frac{5}{9}F - 32\right) + 273$$

$$K = \frac{5}{9}(F - 32) + 273$$