Which of the curves in figure (23-Q1) represents the relation between Celsius and Fahrenheit temperatures ?
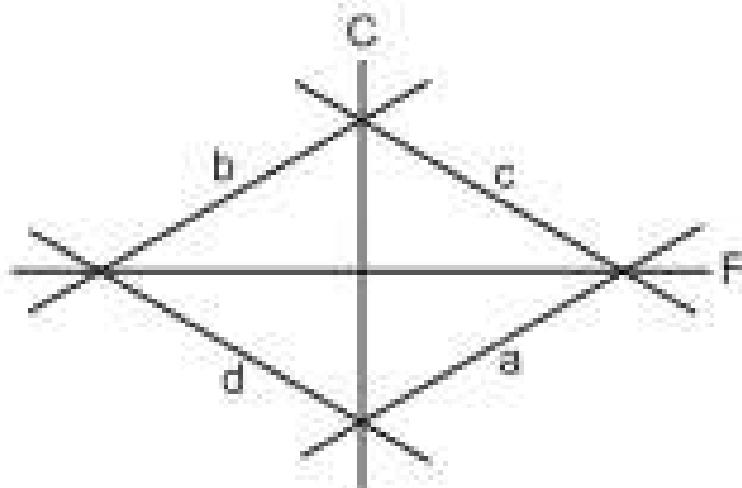


Figure 23-Q1

Relation between celsius and Fahrenheit scale
is given by:-

$$C = \frac{5}{9}(F - 32)$$

$$\Rightarrow \quad C = \frac{5F}{9} - \left(\frac{5}{9}\right)(32)$$

On comparing with $y = mx + c$;
Graph comes out to be a straight line
with positive slope and negative intercept.

$\Rightarrow$ Option (a) is the answer.