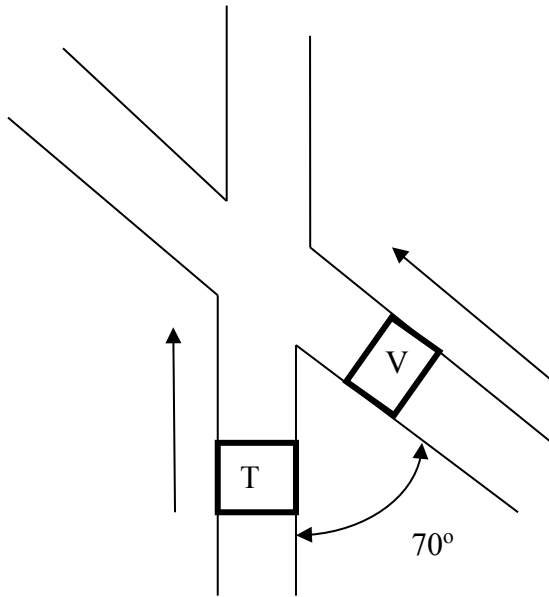


**TOPIC**

Engineering Mechanics (Statics and Dynamics) – Section VII – Question 15

**QUESTION**

A truck (T) and a car C approach an intersection on roads that intersect at a  $70^\circ$  angle, in the position shown, the velocity of the car is 30 ft/s and the velocity of the truck is 20 ft/s. The speed, in ft/s, of the truck relative to the car most nearly is



- (A) 10.0
- (B) 29.8
- (C) 36.1
- (D) 41.4

**CONTRIBUTOR**

Karim Nohra