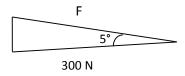
## **Answer on** Question #63166, Physics / Mechanics | Relativity

a rope tied to a tree and a car bumper with 300 N of force applied mid way between applies how much force to the car if the rope is deflected 5 degrees.

## **Solution:**



Of Figure 
$$\Rightarrow \cos 5^{\circ} = \frac{300}{F}$$
 (1)

Of (1) 
$$\Rightarrow$$
 F  $=\frac{300}{\cos 5^{\circ}}$  (2)

Of (2) 
$$\Rightarrow$$
 301.2 N

## Answer:

301.2 N

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