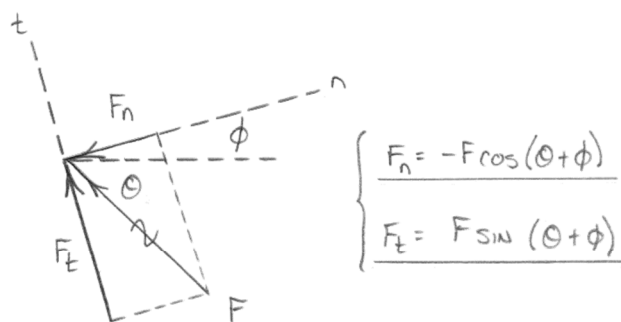


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a) $F = 500 \text{ N}$, $\theta = 60^\circ$, $\phi = 20^\circ$

$$\begin{cases} F_n = -500 \cos(60^\circ + 20^\circ) \longrightarrow \underline{F_n = -86.8 \text{ N}} \\ F_t = 500 \sin(60^\circ + 20^\circ) \longrightarrow \underline{F_t = 492 \text{ N}} \end{cases}$$

b) $F = 800 \text{ N}$, $\theta = 45^\circ$, $\phi = 150^\circ$

$$\begin{cases} F_n = -800 \cos(45^\circ + 150^\circ) \longrightarrow \underline{F_n = 773 \text{ N}} \\ F_t = 800 \sin(45^\circ + 150^\circ) \longrightarrow \underline{F_t = -207 \text{ N}} \end{cases}$$