



$$F_t = F \sin \theta = F \sin \left[ \sin^{-1} \left( \frac{s}{r} \right) \right] = \underline{\underline{\frac{Fs}{r}}}$$

$$\begin{aligned} F_n &= -F \cos \theta = -F \cos \left[ \sin^{-1} \left( \frac{s}{r} \right) \right] \\ &= - \underline{\underline{\frac{F \sqrt{r^2 - s^2}}{r}}} \end{aligned}$$

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