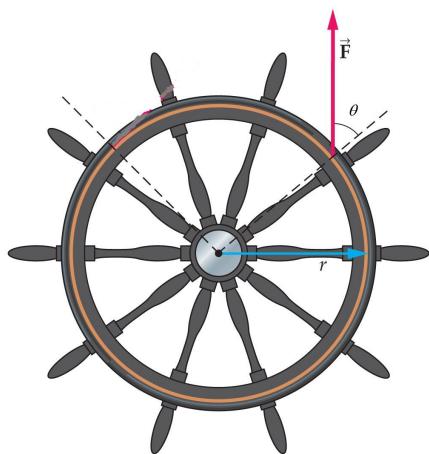


Nom: _____ Réponses _____

Préquiz #4

On exerce une force $F = 70 \text{ N}$ sur la roue ci-dessous. Calculez le moment de force causé par \vec{F} pour

- (a) $r = 0.75 \text{ m}$ et $\theta = 0^\circ$, $\tau = rF\sin\theta = (0.75\text{m})(70\text{N})\sin(0) = 0 \text{ Nm}$
- (b) $r = 0.75 \text{ m}$ et $\theta = 30^\circ$, $\tau = rF\sin\theta = (0.75\text{m})(70\text{N})\sin(30) = 26 \text{ Nm}$
- (c) $r = 0.75 \text{ m}$ et $\theta = 60^\circ$, $\tau = rF\sin\theta = (0.75\text{m})(70\text{N})\sin(60) = 45 \text{ Nm}$
- (d) $r = 0.75 \text{ m}$ et $\theta = 90^\circ$, $\tau = rF\sin\theta = (0.75\text{m})(70\text{N})\sin(90) = 53 \text{ Nm}$
- (e) $r = 0.50 \text{ m}$ et $\theta = 60^\circ$, $\tau = rF\sin\theta = (0.50\text{m})(70\text{N})\sin(60) = 30 \text{ Nm}$
- (f) $r = 0.25 \text{ m}$ et $\theta = 60^\circ$, $\tau = rF\sin\theta = (0.25\text{m})(70\text{N})\sin(60) = 15 \text{ Nm}$



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