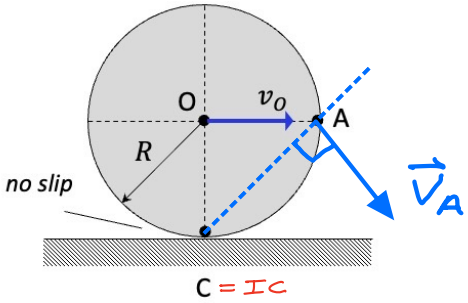
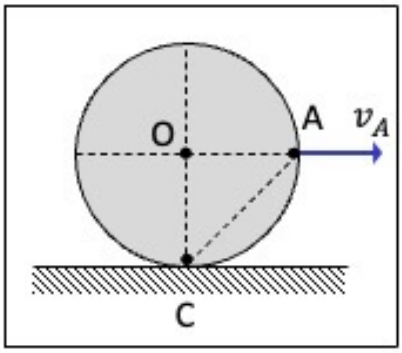
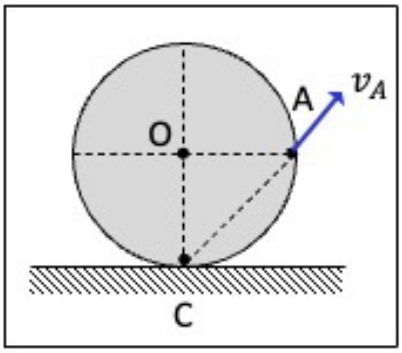
Problem Q1 - velocity

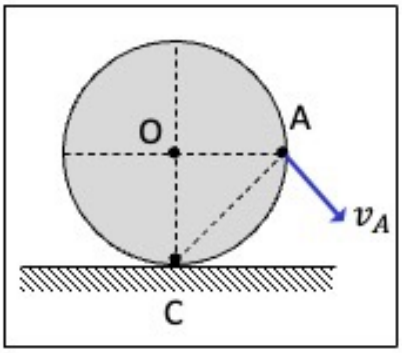




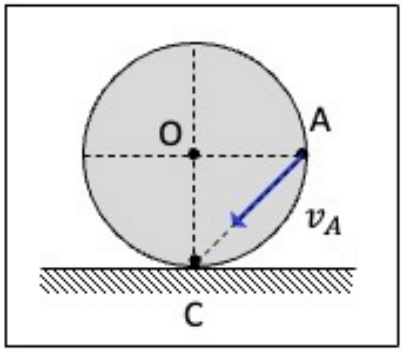
(a)



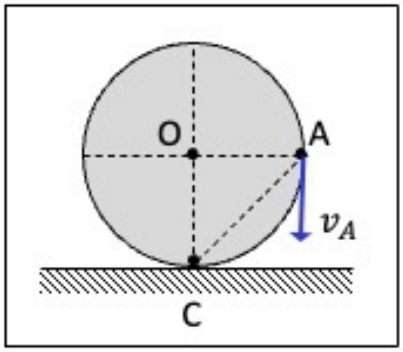
(b)



(c)

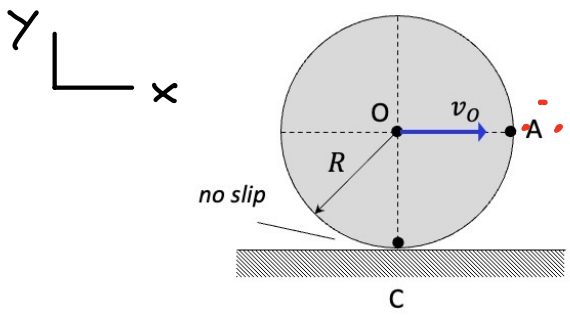


(d)



(e)

Problem Q2 - acceleration

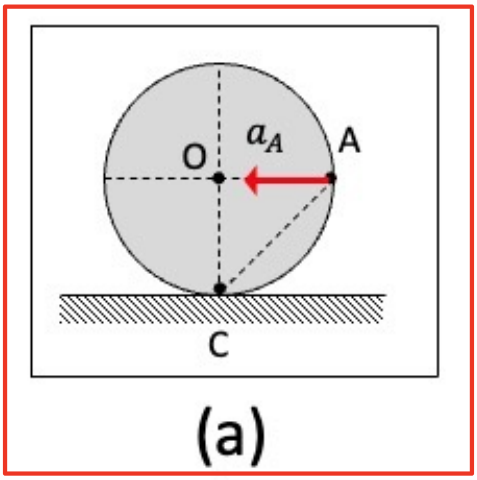


$V_O = \text{constant} \Rightarrow$

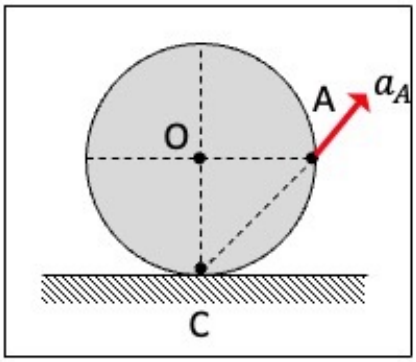
$\begin{cases} a_O = 0 \\ \omega = \text{constant} \Rightarrow \alpha = 0 \end{cases}$

$\vec{a}_A = \vec{a}_O + \vec{\alpha} \times \vec{r}_{A/O} - \omega^2 \vec{r}_{A/O}$

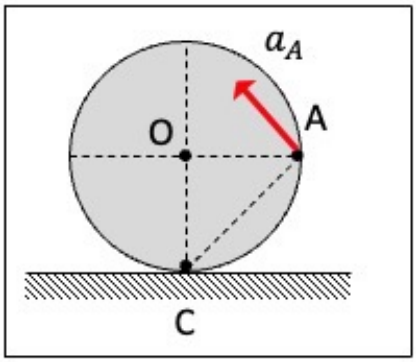
$= -\omega^2 R \hat{\imath}$



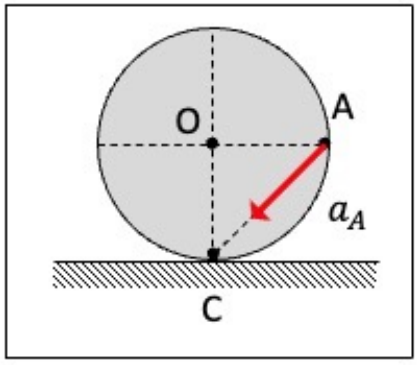
(a)



(b)



(c)



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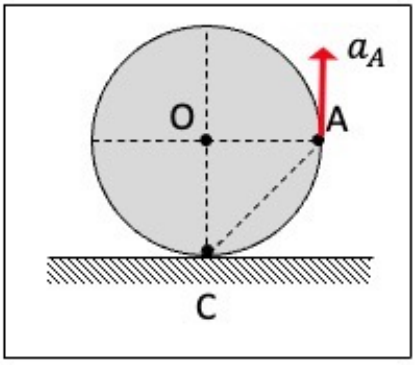

(e)