Today:
torque
angular momentum
rotational inertia
precession

if time:
pressure
atmospheric pressure
fluids

PHY 117 HS2024

Reminder: please ask questions about exercises on the OLAT forum.

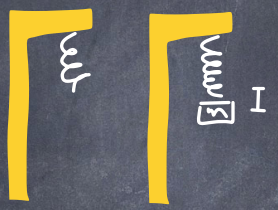
Week 4, Lecture 2
Oct. 9th, 2024
Prof. Ben Kilminster

Quiz 2:

	Unanswered	Right	Wrong
The spring constant would be the same on the moon than on the earth. ($k = \frac{mg}{\Delta x}$, and g is different on the moon)	answer	118	129

K is a constant, independent of the type of force. If we pull on a spring with any force F, it will extend by Δx, so $K = \frac{F}{\Delta x}$.

More info...

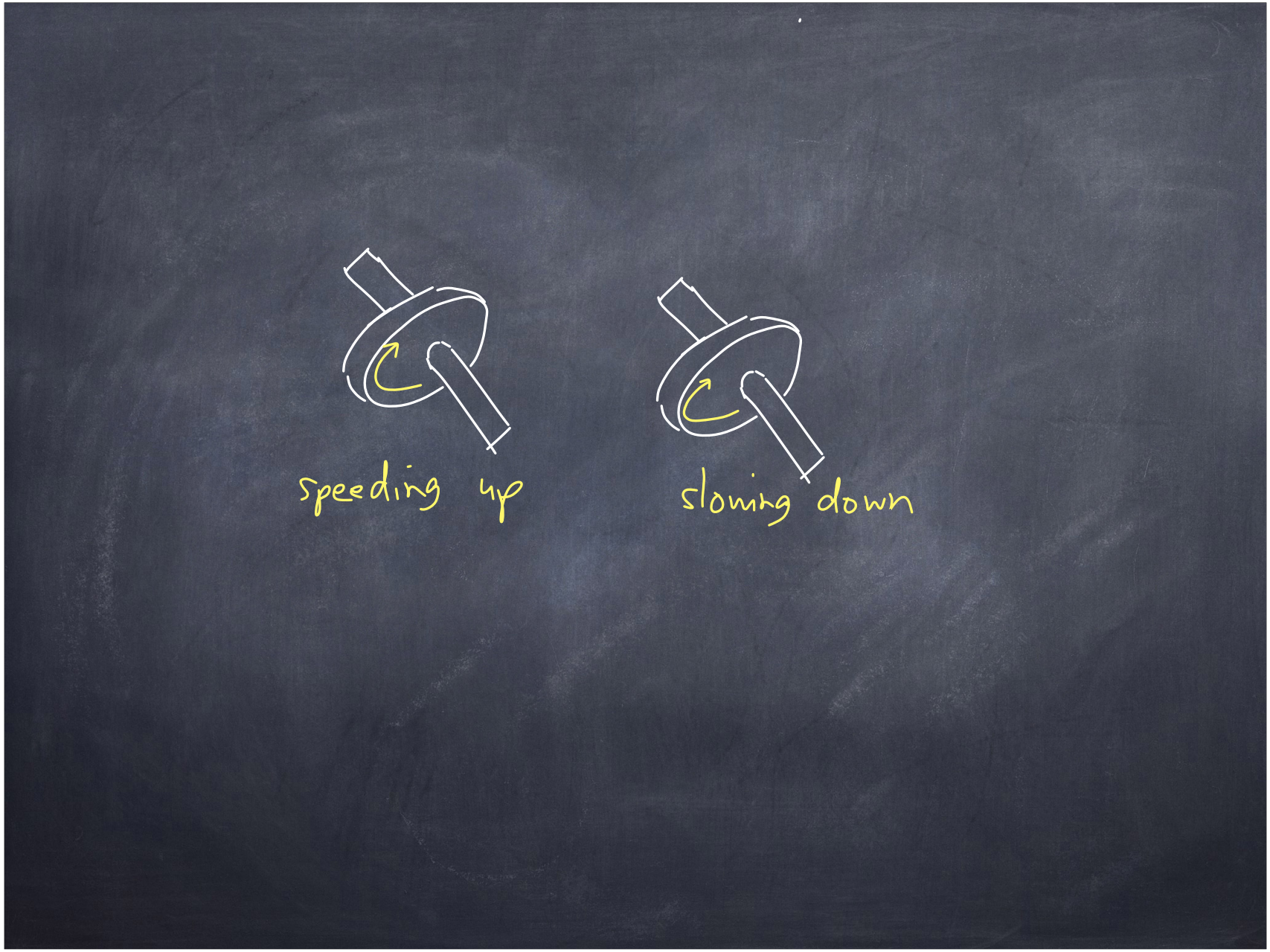


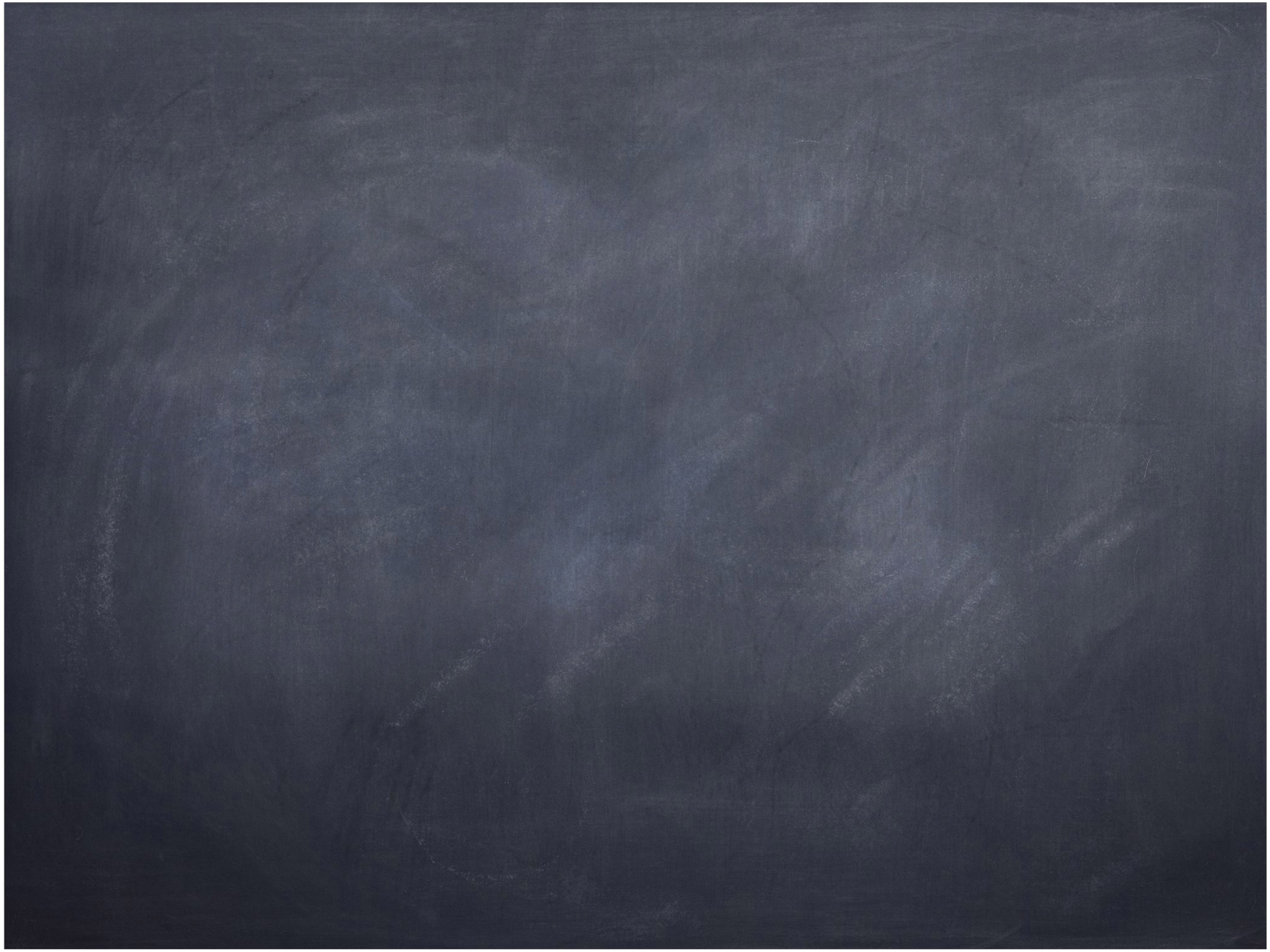
yesterday

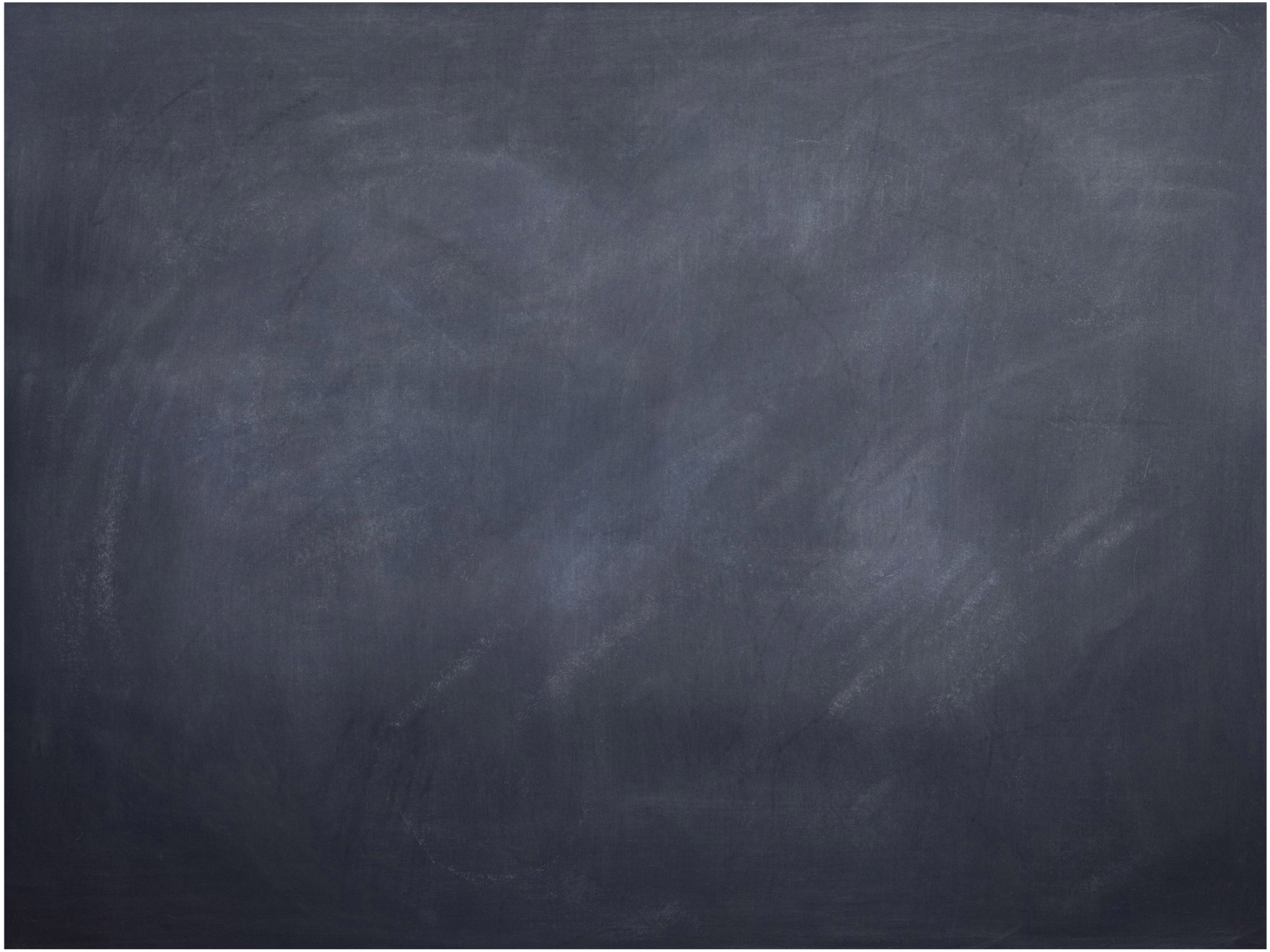
linear motion	rotational motion
$\bar{F} = m\bar{a}$	$\bar{\tau} = I\bar{\alpha}$

I is kind of like mass ($I = mr^2$) for one particle

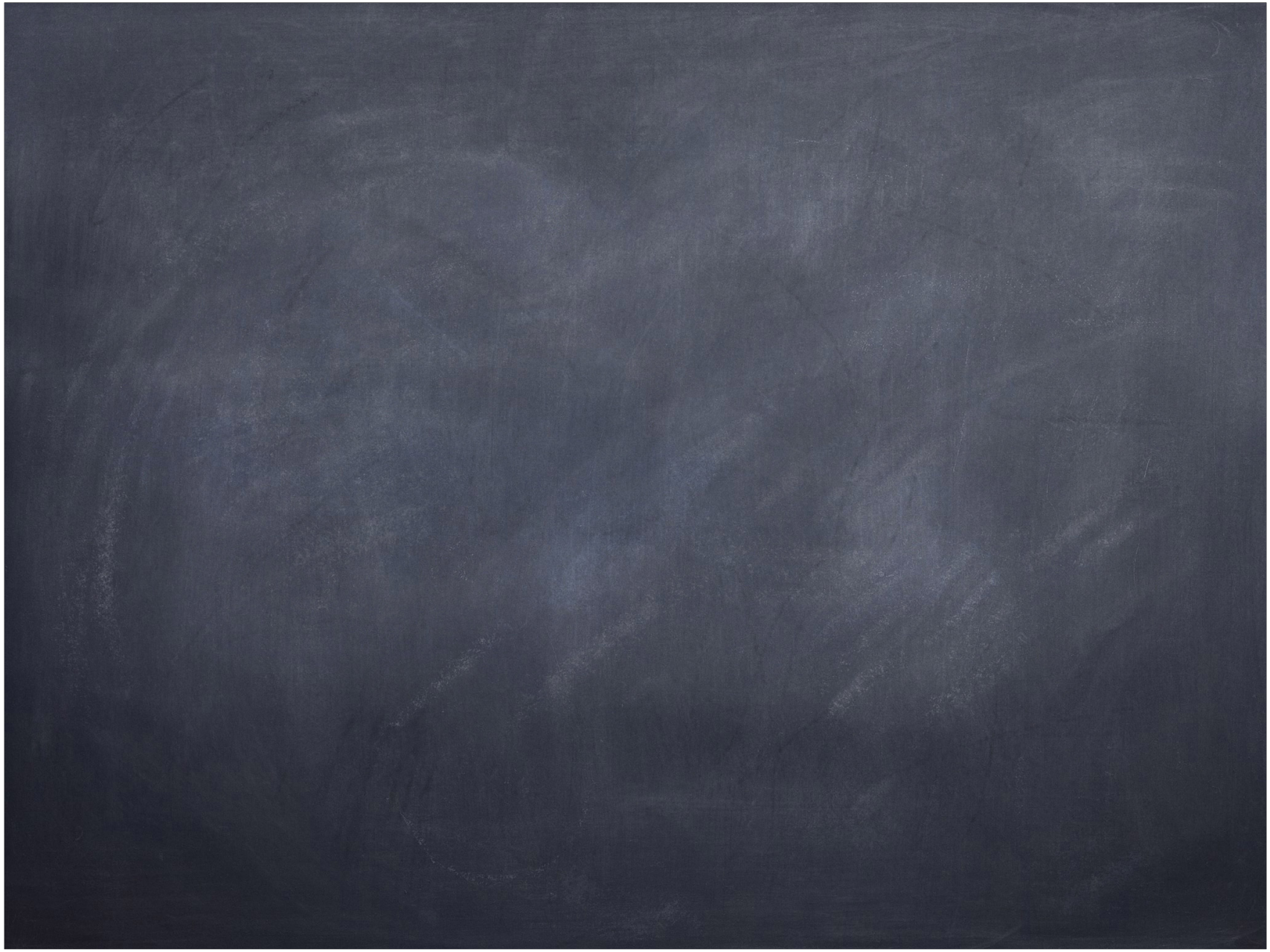
Newton's second law of rotation: $\Sigma\bar{\tau} = I\bar{\alpha}$


speeding up
slowing down

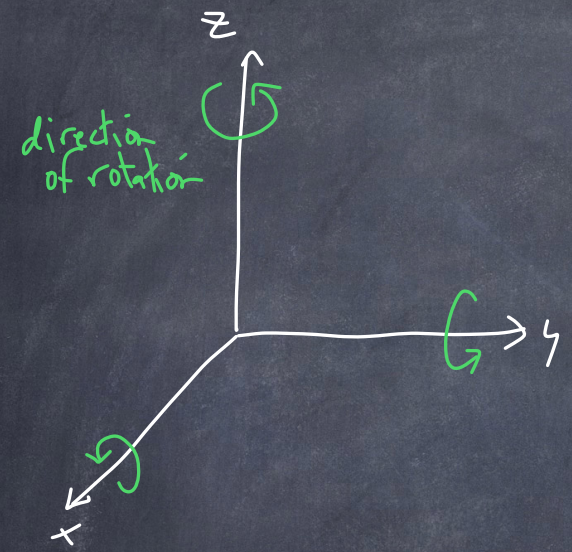





MONDAINE
SBB CFF FFS
OFFICIAL RAILWAYS CLOCK DESIGN



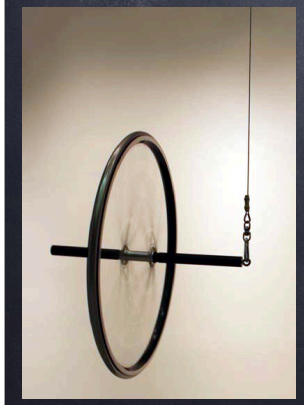
Objects can spin around 3 axes.

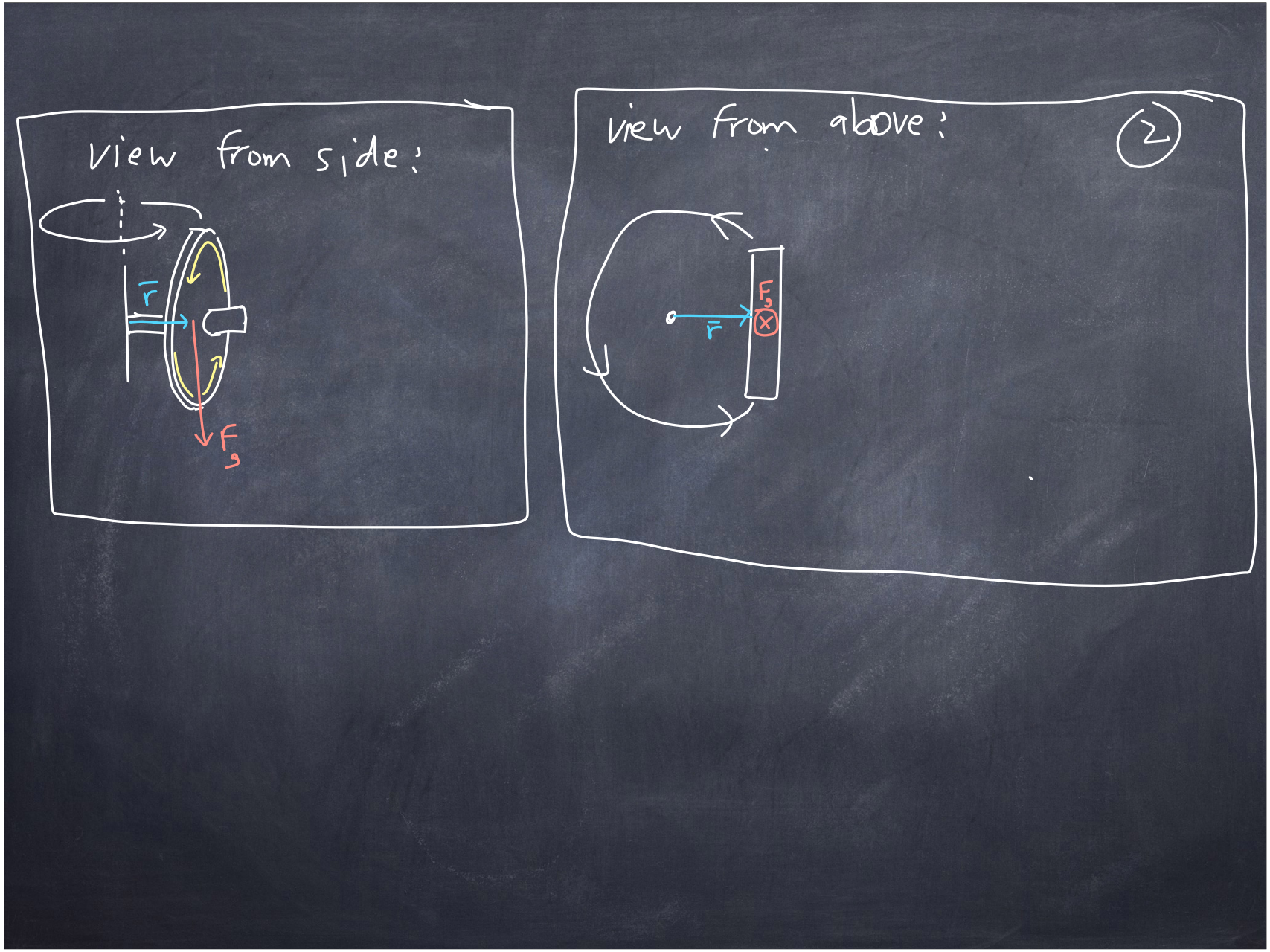


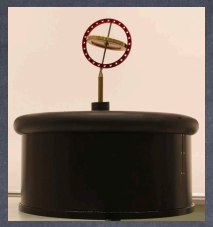
Initial :

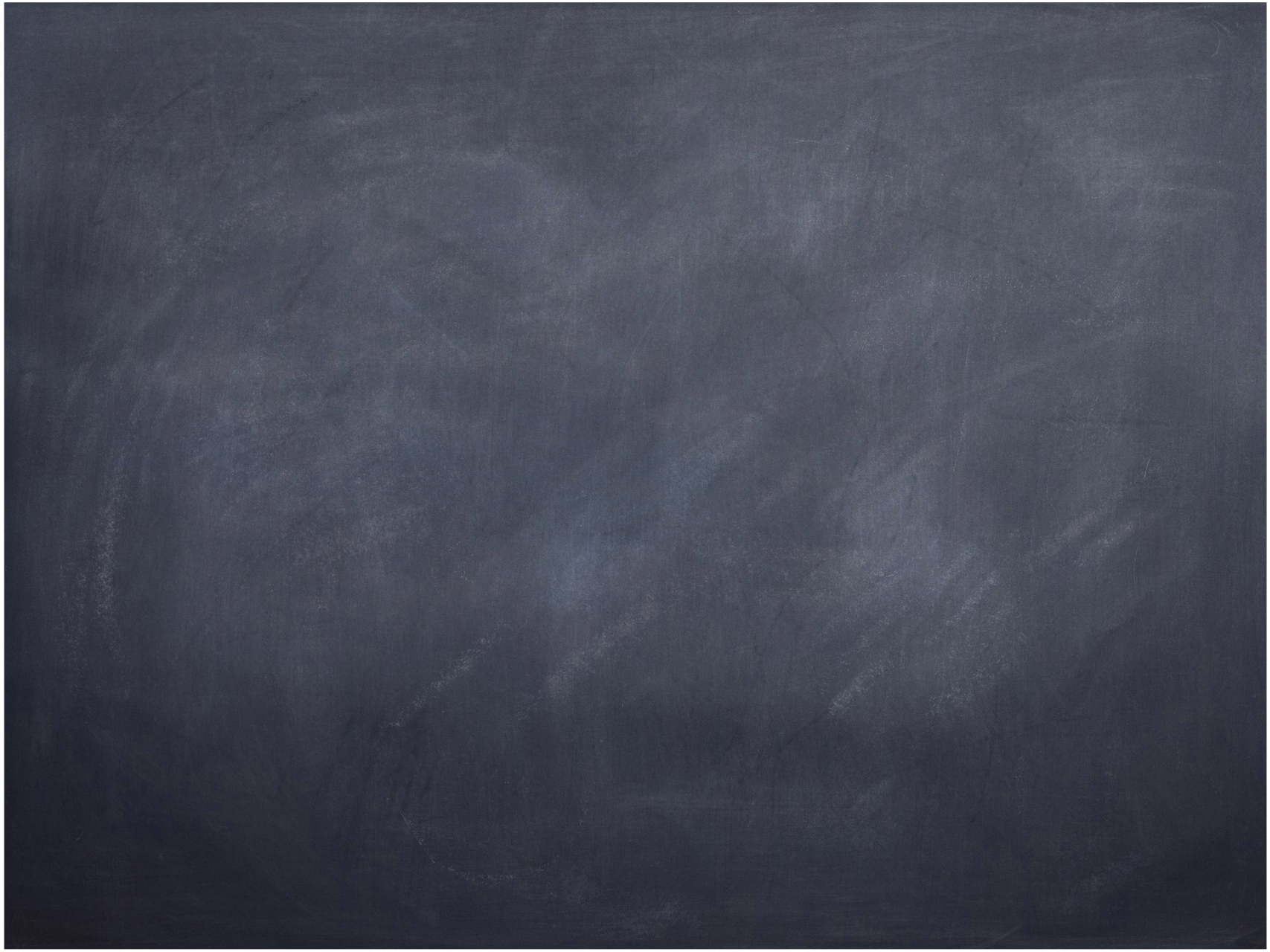
Final:

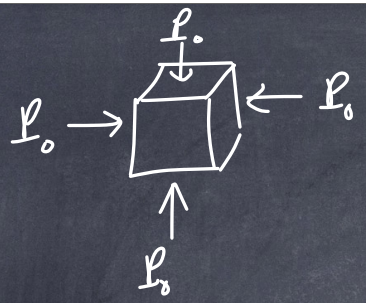
$\hat{z}$




view from side:
r
F_g
view from above:
(2)
r
F_g



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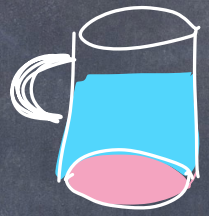


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