

SHM

mass/spring system: $T = 2\pi\sqrt{\frac{m}{k}}$

$$E_e = \frac{1}{2}kx^2 \quad E_k = \frac{1}{2}mv^2$$

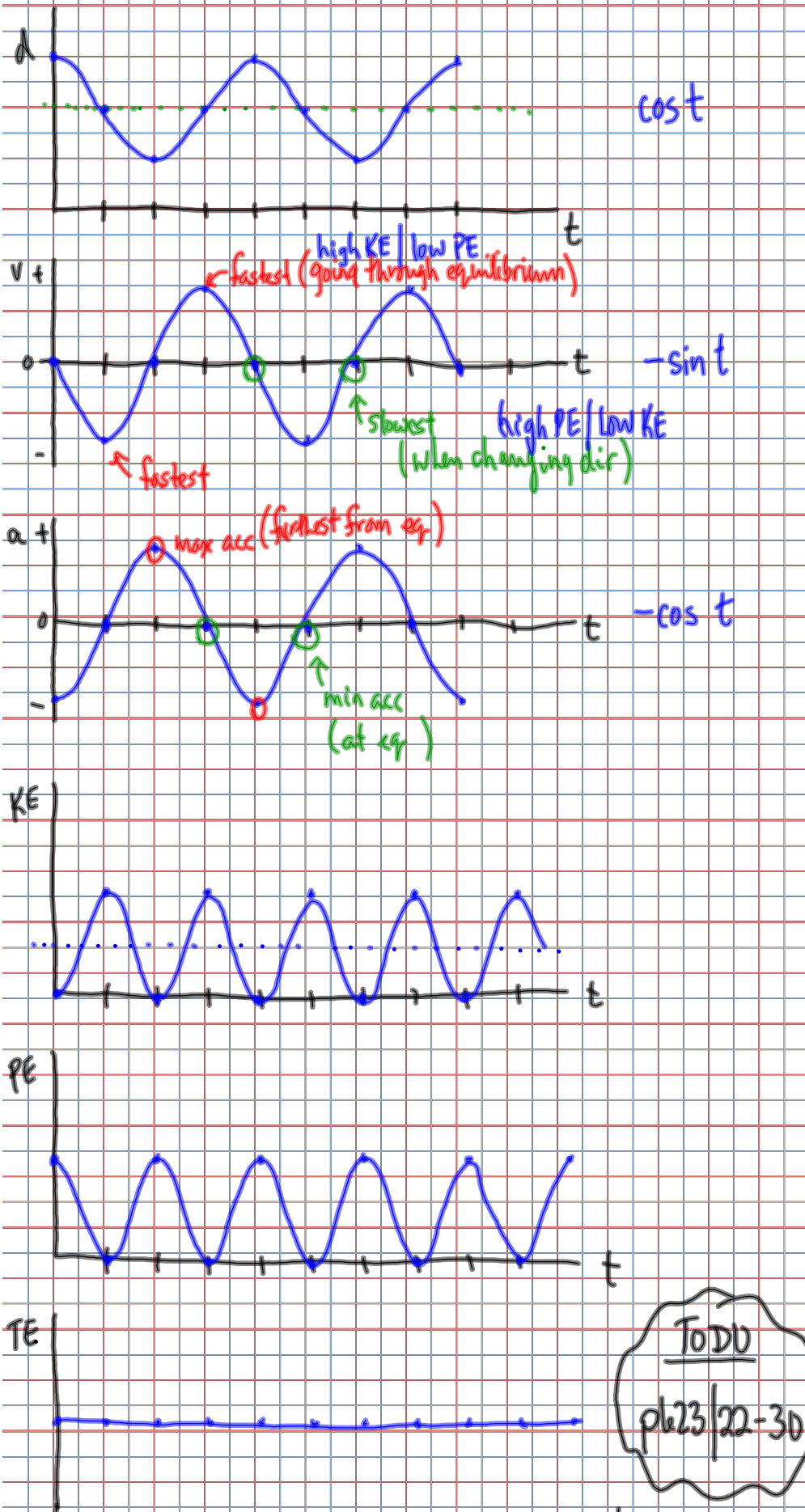
$$F_a = kx$$

Simple
pendulum: $T = 2\pi\sqrt{\frac{l}{g}}$

$$E_g = mgh \quad E_k = \frac{1}{2}mv^2$$

Law of Conservation of Mechanical Energy:
 $E_{\text{total}} = E'_{\text{total}}$

Graphs of Simple Harmonic Motion



TODO
p123/22-30