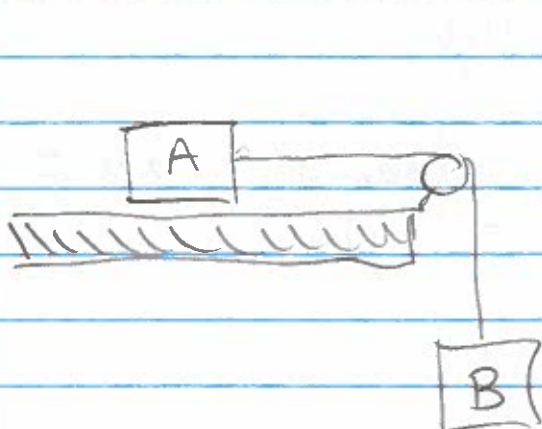


p3

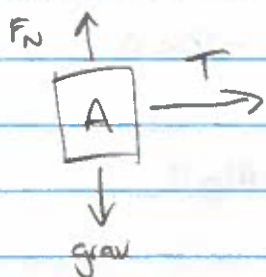
W4B: Atwood

2/3/2026



Ignore friction

On A:



force	x	y
grav	0	$-m_A \cdot g$
normal	0	$+F_N$
string	$+T$	0
total	$+m_A a_x$	$m_A a_y = 0$

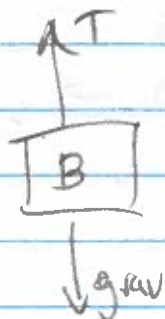
Which way will block accel?

In positive x, so put "+"

$$\rightarrow F_N = m_A g$$

$$\rightarrow a_x = \frac{T}{m_A} \quad T = ??$$

On B



force	x	y
grav	0	$-m_B g$
String	0	$+T$
tot	$m_B a_x = 0$	$-m_B a_y$

Which way will block accel?

In negative y, so put "-"

$$T - m_B g = -m_B a_y$$

$$T = ?? \quad a_y = ??$$