Newton's 2nd Law part 1

Show your pictures and work here

m_{disk}	0.8755	Kg
r_{disk}		m
I_{disk}		Kg m^2
m_1	0.1	Kg
r_{pulley}		m
Tension equation		
h		m
t_1		s
t_2		s
t_3		s
t_4		s
$t_{average}$		s
a		m/s^2
α		rad/s^2
I_{system}		Kg m^2
I_{pulley}		Kg m^2

Newton's 2nd Law part 1

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m $disk_1$	0.8755	Kg
m $disk_2$	0.8755	Kg
r $disk_1$		m
r $disk_2$		m
I $disk_1$		Kg m^2
I $disk_2$		Kg m^2
m_1	0.55	Kg
m_2	0.55	Kg
$r_{pulley1}$		m
$r_{pulley2}$		m
h_1		m
t_1		s
t_2		s
t_3		s
t_4		s
$t_{average}$		s
a_1		m/s^2
α		rad/s^2
a_2		m/s^2
Tension 1 equation		
Tension 2 equation		
I_{system}		Kg m^2
I_{pulley}		Kg m^2

Average I_{pulley}		Kg m^2

Inclined plane

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m_1	0.070	Kg
m_{sled}		Kg
x_1		m
x_2		m
Δx		m
h_1		m
h_2		m
Δh		m
flage width		m
t_1		s
t_{total}		s
v_o		m/s
v_f		m/s
r_{pulley}		m
Initial PE mass 1		J
Initial KE mass 1		J
Initial KE sled		J
ω_o		rad/s
Final KE mass 1		J
Final PE sled		J
Final KE sled		J
ω_f		rad/s
I_{pulley}		Kg m^2

Atwood's Machine Revisited

Show your pictures and work here

$I_{disk\&pulley}$		Kg m^2
$r_{iron\ hoop}$		m
m_1		Kg
m_2		Kg
h		m
t_1		s
t_2		s
t_3		s
t_4		s
$t_{average}$		s
v_f		m/s
ω_f		rad/s
$I_{iron\ hoop}$		Kg m^2

Demolition Derby Again

Show your pictures and work here

$I_{disk\ 1\ \&\ pulley}$		Kg m^2
$I_{disk\ 2}$		Kg m^2
t_1		s
t_2		s
ω_o		rad/s
$\omega_{f\ experimental}$		rad/s
$\omega_{f\ theoretical}$		rad/s
$\%_{error}$		

List any sources of error: