	Ardren, Molly J	Austin, Oliver Edward	Boudreaux, Emma Mae	Chen, Jessy	Clark, Ryan C	Couture, William P	Drew, Madison Elizabeth	Dy, Elliot A	Gerg, Tunmay Kumar	Hanna, Jason A	Herrin, Patrick Russell	Kinaman, Allyson J
Problem 1												
Bobbin acceleration time (s)	1.76E+00	1.05E+00	1.68E+00	7.10E-01	1.82E+00	7.24E-01	1.36E+00	7.07E-01	1.07E+00	1.42E+00	1.75E+00	1.67E+00
Bobbin final angular speed (rev per second)	1.03E+01	8.89E+00	6.23E+00	1.48E+01	1.35E+01	8.24E+00	6.51E+00	1.22E+01	1.34E+01	8.52E+00	1.10E+01	1.13E+01
Bobbin radius (m)	7.04E-03	6.09E-03	5.83E-03	6.39E-03	9.73E-03	6.18E-03	3.95E-03	6.52E-03	5.00E-03	9.30E-03	7.98E-03	9.19E-03
Problem 2												
Initial tangential speed of a point on the edge of the bicycle wheel (m/s)	2.89E+00	5.34E+00	3.59E+00	5.15E+00	2.78E+00	4.72E+00	4.70E+00	3.02E+00	5.63E+00	5.13E+00	3.42E+00	4.48E+00
Angular deceleration of bicicyle wheel (rad/s^2)	-1.25E+01	-1.00E+01	-5.55E+00	-6.54E+00	-5.62E+00	-1.23E+01	-8.95E+00	-9.66E+00	-1.19E+01	-1.09E+01	-1.05E+01	-1.02E+01
Wheel radius (m)	3.69E+00	1.92E+00	2.17E+00	3.22E+00	2.93E+00	2.94E+00	4.22E+00	3.90E+00	2.83E+00	1.74E+00	2.90E+00	3.79E+00
Problem 3												
Force applied by string tension (N)	1.35E+00	9.06E-01	1.50E+00	6.45E-01	6.70E-01	1.00E+00	7.07E-01	7.37E-01	1.71E+00	8.58E-01	1.20E+00	1.09E+00
Time interval for weight to fall (s)	3.45E+00	3.92E+00	2.89E+00	3.73E+00	3.03E+00	3.74E+00	1.92E+00	3.42E+00	3.19E+00	1.96E+00	2.01E+00	2.20E+00
Angular displacement of pulley during weight's fall (rad)	1.32E+02	9.13E+01	5.60E+01	1.23E+02	1.27E+02	1.23E+02	1.31E+02	8.84E+01	1.24E+02	7.19E+01	4.82E+01	1.33E+02
Pulley radius (m)	3.55E-02	4.75E-02	5.69E-02	8.92E-02	6.18E-02	3.60E-02	6.70E-02	5.67E-02	4.05E-02	4.43E-02	6.20E-02	8.44E-02
Problem 4												
Inital angular speed (rad/s)	4.46E+00	3.10E+00	2.71E+00	2.67E+00	2.42E+00	2.98E+00	3.63E+00	3.22E+00	4.65E+00	2.78E+00	1.97E+00	2.56E+00
Initial moment of inertia (kgm^2)	4.29E+00	6.60E+00	3.37E+00	6.13E+00	4.14E+00	6.08E+00	3.54E+00	3.20E+00	3.17E+00	2.32E+00	4.76E+00	5.46E+00
New angular speed (rad/s)	6.35E+00	6.17E+00	1.41E+01	1.65E+01	7.77E+00	6.30E+00	1.35E+01	1.74E+01	7.20E+00	1.28E+01	1.20E+01	1.04E+01
Problem 5												
Object radius (m)	1.03E-02	2.01E-02	1.80E-02	8.73E-03	1.43E-02	1.47E-02	9.65E-03	8.90E-03	2.19E-02	1.17E-02	1.90E-02	1.65E-02
Object mass (kg)	1.65E-01	1.92E-01	1.31E-01	1.11E-01	2.81E-01	2.13E-01	1.05E-01	1.34E-01	1.40E-01	2.25E-01	2.75E-01	3.00E-01
Object translational velocity "v" at the bottom of the ramp (m/s)	7.79E+00	4.06E+00	3.53E+00	8.53E+00	4.15E+00	3.22E+00	5.69E+00	8.18E+00	6.72E+00	3.49E+00	8.65E+00	4.26E+00
Value of X to use in determining the object's moment of inertia (no units)	1.63E-01	1.43E-01	2.22E-01	1.31E-01	1.52E-01	2.26E-01	1.24E-01	2.60E-01	2.93E-01	2.97E-01	2.30E-01	1.29E-01

	Ardren, Molly J	Austin, Oliver Edward	Boudreaux, Emma Mae	Chen, Jessy	Clark, Ryan C	Couture, William P	Drew, Madison Elizabeth	Dy, Elliot A	Gerg, Tunmay Kumar	Hanna, Jason A	Herrin, Patrick Russell	Kinaman, Allyson J
Problem 6												
Beam weight (N)	2.00E+02	2.48E+02	3.55E+02	1.54E+02	2.24E+02	2.00E+02	1.62E+02	3.75E+02	2.20E+02	4.21E+02	4.26E+02	1.81E+02
Beam length (m)	5.86E+00	1.19E+01	1.08E+01	1.37E+01	6.01E+00	9.92E+00	6.85E+00	1.39E+01	1.11E+01	1.16E+01	1.02E+01	7.77E+00
Hanging object weight (N)	1.64E+02	1.62E+02	2.37E+02	1.69E+02	1.40E+02	2.27E+02	1.66E+02	1.27E+02	1.17E+02	1.20E+02	2.84E+02	1.71E+02
Hanging object distance from the right end of the beam (m)	[redacted]											
Bonus												
Pulley mass (kg)	9.85E+00	8.95E+00	1.38E+01	1.35E+01	1.36E+01	6.82E+00	1.28E+01	5.66E+00	8.66E+00	1.37E+01	1.27E+01	6.90E+00
Pulley radius (m)	5.01E-02	7.50E-02	9.33E-02	9.45E-02	1.38E-01	1.07E-01	7.83E-02	1.06E-01	8.39E-02	6.96E-02	6.00E-02	1.06E-01
Left hanging object weight (N)	1.00E+01	6.55E+00	9.91E+00	1.39E+01	1.36E+01	6.06E+00	1.04E+01	8.36E+00	1.15E+01	1.05E+01	9.64E+00	1.19E+01
Right hanging object weight (N)	1.04E+01	1.37E+01	1.60E+01	2.78E+01	1.99E+01	1.45E+01	2.99E+01	2.35E+01	1.49E+01	2.88E+01	1.59E+01	2.76E+01

	Ardren, Molly J	Austin, Oliver Edward	Boudreaux, Emma Mae	Chen, Jessy	Clark, Ryan C	Couture, William P	Drew, Madison Elizabeth	Dy, Elliot A	Gerg, Tunmay Kumar	Hanna, Jason A	Herrin, Patrick Russell	Kinaman, Allyson J
Problem 6												
Hanging object distance from the right end of the beam (m)	3.00	7.00	4.00	9.00	2.00	2.37	2.00	10.00	7.00	4.00	3.00	7.00

	Lee, Justin Junseo	Liguori, Scott B	Lu, Eric Jiazhi	Maddalena, Trystan James	Moody, Kaylee Joy	Moran, Kyle Barrett	Moyer, Celeste Kay	Nelson, Brian Michael David	Parks, Grace C	Pay, Chloe Collins	Puleo, Matthew Joseph	Stapleton, Walker J	Yates, Skye Elizabeth
Problem 1													
Bobbin acceleration time (s)	8.07E-01	1.43E+00	1.81E+00	1.07E+00	1.62E+00	1.07E+00	1.03E+00	1.84E+00	2.06E+00	1.65E+00	1.72E+00	2.02E+00	7.73E-01
Bobbin final angular speed (rev per second)	5.79E+00	1.23E+01	5.01E+00	9.37E+00	1.20E+01	7.63E+00	7.81E+00	5.69E+00	6.23E+00	1.17E+01	1.03E+01	6.06E+00	7.30E+00
Bobbin radius (m)	7.24E-03	5.76E-03	5.32E-03	3.69E-03	8.11E-03	8.06E-03	7.74E-03	6.03E-03	5.99E-03	8.18E-03	9.94E-03	8.98E-03	6.44E-03
Problem 2													
Initial tangential speed of a point on the edge of the bicycle wheel (m/s)	3.48E+00	5.61E+00	2.67E+00	5.21E+00	3.09E+00	5.23E+00	3.43E+00	2.60E+00	3.39E+00	3.61E+00	2.20E+00	2.09E+00	4.02E+00
Angular deceleration of bicicyle wheel (rad/s^2)	-9.06E+00	-9.29E+00	-1.36E+01	-1.10E+01	-1.45E+01	-9.90E+00	-9.68E+00	-1.01E+01	-5.19E+00	-1.37E+01	-5.88E+00	-6.36E+00	-6.26E+00
Wheel radius (m)	1.52E+00	4.36E+00	2.28E+00	1.93E+00	4.23E+00	2.98E+00	1.71E+00	2.70E+00	2.47E+00	2.35E+00	4.12E+00	4.29E+00	1.93E+00
Problem 3													
Force applied by string tension (N)	8.67E-01	1.62E+00	7.61E-01	6.51E-01	1.00E+00	6.48E-01	1.47E+00	1.52E+00	6.53E-01	1.39E+00	1.17E+00	1.05E+00	1.60E+00
Time interval for weight to fall (s)	3.54E+00	4.16E+00	3.65E+00	3.32E+00	1.98E+00	3.06E+00	3.58E+00	2.25E+00	1.94E+00	3.02E+00	3.45E+00	2.65E+00	1.74E+00
Angular displacement of pulley during weight's fall (rad)	8.49E+01	1.28E+02	8.79E+01	1.00E+02	1.02E+02	1.23E+02	5.35E+01	7.48E+01	8.05E+01	5.61E+01	7.00E+01	8.51E+01	5.57E+01
Pulley radius (m)	6.71E-02	7.30E-02	7.09E-02	5.09E-02	7.39E-02	7.05E-02	7.20E-02	5.03E-02	6.07E-02	5.11E-02	3.91E-02	4.52E-02	4.62E-02
Problem 4													
Inital angular speed (rad/s)	4.45E+00	2.08E+00	2.51E+00	4.79E+00	3.91E+00	4.28E+00	2.32E+00	3.95E+00	2.79E+00	4.99E+00	2.50E+00	4.82E+00	5.27E+00
Initial moment of inertia (kgm^2)	4.83E+00	6.56E+00	5.70E+00	6.41E+00	6.26E+00	5.63E+00	6.43E+00	6.73E+00	3.26E+00	4.82E+00	5.19E+00	2.56E+00	4.24E+00
New angular speed (rad/s)	1.53E+01	1.51E+01	1.59E+01	1.23E+01	1.56E+01	7.15E+00	1.21E+01	1.09E+01	6.15E+00	9.94E+00	1.49E+01	8.57E+00	1.36E+01
Problem 5													
Object radius (m)	1.71E-02	1.59E-02	1.53E-02	1.04E-02	1.65E-02	9.89E-03	1.41E-02	1.00E-02	1.51E-02	1.34E-02	1.23E-02	1.74E-02	1.74E-02
Object mass (kg)	1.92E-01	2.27E-01	2.14E-01	2.20E-01	2.53E-01	1.02E-01	2.81E-01	1.34E-01	1.60E-01	2.89E-01	1.63E-01	1.39E-01	2.56E-01
Object translational velocity "v" at the bottom of the ramp (m/s)	6.19E+00	6.03E+00	3.79E+00	8.36E+00	6.84E+00	5.78E+00	6.01E+00	4.00E+00	6.11E+00	3.95E+00	8.97E+00	3.45E+00	4.61E+00
Value of X to use in determining the object's moment of inertia (no units)	2.45E-01	1.43E-01	1.31E-01	2.77E-01	2.69E-01	2.17E-01	1.51E-01	1.97E-01	2.11E-01	2.43E-01	1.09E-01	1.43E-01	1.82E-01

	Lee, Justin Junseo	Liguori, Scott B	Lu, Eric Jiazhi	Maddalena, Trystan James	Moody, Kaylee Joy	Moran, Kyle Barrett	Moyer, Celeste Kay	Nelson, Brian Michael David	Parks, Grace C	Pay, Chloe Collins	Puleo, Matthew Joseph	Stapleton, Walker J	Yates, Skye Elizabeth
Problem 6													
Beam weight (N)	2.32E+02	3.18E+02	2.72E+02	3.18E+02	2.64E+02	3.16E+02	3.47E+02	1.64E+02	3.33E+02	3.86E+02	3.23E+02	2.00E+02	2.82E+02
Beam length (m)	6.70E+00	1.23E+01	1.03E+01	1.33E+01	1.39E+01	5.30E+00	8.47E+00	6.40E+00	5.99E+00	6.27E+00	7.08E+00	6.11E+00	1.33E+01
Hanging object weight (N)	1.20E+02	1.94E+02	1.25E+02	2.74E+02	1.48E+02	2.06E+02	2.32E+02	2.46E+02	1.61E+02	1.84E+02	1.76E+02	2.56E+02	2.21E+02
Hanging object distance from the right end of the beam (m)	1.6	[redacted]											
Bonus													
Pulley mass (kg)	7.26E+00	1.45E+01	8.34E+00	6.18E+00	1.25E+01	6.19E+00	8.48E+00	9.82E+00	1.43E+01	5.44E+00	1.31E+01	1.29E+01	9.44E+00
Pulley radius (m)	6.96E-02	6.18E-02	1.32E-01	6.83E-02	8.69E-02	8.55E-02	7.57E-02	6.86E-02	1.13E-01	6.16E-02	8.55E-02	1.31E-01	5.25E-02
Left hanging object weight (N)	1.50E+01	8.62E+00	7.12E+00	1.46E+01	1.44E+01	1.37E+01	7.13E+00	9.07E+00	7.25E+00	1.16E+01	1.32E+01	9.47E+00	1.03E+01
Right hanging object weight (N)	1.66E+01	1.86E+01	1.60E+01	1.60E+01	2.98E+01	1.03E+01	1.31E+01	1.36E+01	1.94E+01	2.33E+01	1.44E+01	1.29E+01	1.06E+01

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
		Lee, Justin Junseo	Liguori, Scott B	Lu, Eric Jiazhi	Maddalena, Trystan James	Moody, Kaylee Joy	Moran, Kyle Barrett	Moyer, Celeste Kay	Nelson, Brian Michael David	Parks, Grace C	Pay, Chloe Collins	Puleo, Matthew Joseph	Stapleton, Walker J	Yates, Skye Elizabeth
1	Problem 6													
2	Hanging object distance from the right end of the beam (m)	2.00	4.45	1.37	3.00	4.00	4.00	6.00	4.00	5.00	2.00	5.00	2.65	8.00