Homework

1.	Fill	Fill in the blanks for the following (20%)	
	B. C. D. E. F. G. H. J. K. L.	Ratchets give motions For ratchets, the stops the wheel from slipping back Drives and Gearing provide connections In friction drives, a is often employed to prevent belt slip An is a tensioning mechanism is used to take up slack in a belt In timing belts, the belt has to engage the notches in the pulley wheels In chain and sprocket drives, can be added or removed Spur gears have the same number of In a drive, the geared wheel meshes with a toothed rack In a drive, the shaft has a screw thread that meshes with a toothed wheel In bevel gears, the 2 wheels mesh at degrees The is simpler form of the bevel gear and is easier to fabricate In bevel gears, the changes from horizontal to vertical (and vice-versa)	
2.	Answer the following (10%)		
		Sketch a friction belt drive where the driving and driven wheels counter-rotate Sketch a friction belt drive where the driving and driven wheels are rotating in different rotational planes	
3.	Define (1 to 2 sentences), describe (1 to 3 paragraphs) and provide sketches to support you definitions and descriptions for the following (10%)		
	A.	Worm Gears	
	В.	Ratchets used to lift heavy loads	
4.	Ske	etch and describe the 4 cycles of an 8-notch ratchet-crank mechanism (10%)	