



FIGURE P9-1

Planetary gearset for Problem 9-25

*†9-25 Figure P9-1 shows a compound planetary gear train (not to scale). Table P9-1 gives data for gear numbers of teeth and input velocities. For the row(s) assigned, find the variable represented by a question mark.

* Answers in Appendix F.

† These problems are suited to solution using *Mathcad*, *Matlab*, or *TKSolver* equation solver programs.

TABLE P9-1 Data for Problem 9-25

Row	N_2	N_3	N_4	N_5	N_6	ω_2	ω_6	ω_{arm}
a	30	25	45	50	200	?	20	- 50
b	30	25	45	50	200	30	?	- 90
c	30	25	45	50	200	50	0	?
d	30	25	45	30	160	?	40	- 50
e	30	25	45	30	160	50	?	- 75
f	30	25	45	30	160	50	0	?