



FIGURE P9-2

Compound planetary gear train for Problem 9-26

\*†9-26 Figure P9-2 shows a compound planetary gear train (not to scale). Table P9-2 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 P9-2 Data for Problem 9-26

Row	$N_2$	$N_3$	$N_4$	$N_5$	$N_6$	$\omega_2$	$\omega_6$	$\omega_{\text{arm}}$
a	50	25	45	30	40	?	20	-50
b	30	35	55	40	50	30	?	-90
c	40	20	45	30	35	50	0	?
d	25	45	35	30	50	?	40	-50
e	35	25	55	35	45	30	?	-75
f	30	30	45	40	35	40	0	?