

SPEED CHANGES (AST)



PAGES 393 TO 396

Complete this concept review handout and keep it as a record of what you have learned.

DEFINITION

- There is a speed change in a _____ system when _____

FACTORS AFFECTING SPEED IN MOTION TRANSMISSION SYSTEMS

System	Combination to increase speed	Combination to reduce speed
Friction gear system	Motion is transmitted from a wheel to another of smaller diameter.	Motion is transmitted from a wheel to another of greater diameter.
Pulley and belt system	_____ _____ _____ _____	_____ _____ _____ _____
Gear train system	_____ _____ _____ _____	_____ _____ _____ _____
Chain and sprocket system	_____ _____ _____ _____	_____ _____ _____ _____
Worm and worm gear system	Not applicable.	Motion is transmitted from the worm to the worm gear.

CONSISTENCY OF SPEED RATIO BETWEEN COMPONENTS

System	Speed ratio	Characteristic
Friction gear system	Not always constant.	The wheels tend to slide one over the other.
Pulley and belt system	_____	_____
	_____	_____
	_____	_____
	_____	_____
Simple gear system	_____	_____
	_____	_____
	_____	_____
	_____	_____
Chain and sprocket system	_____	_____
	_____	_____
	_____	_____
	_____	_____
Worm and worm gear system	_____	_____
	_____	_____
	_____	_____
	_____	_____