

Activity 1.1.5 Gears, Pulley Drives, and Sprockets Practice Problems

Procedure

Analyze the following questions regarding gear, pulley, and sprocket systems. Each question requires proper illustration and calculation including showing all forces, distances, formulas, and relevant values. Each drawing should include sufficient top view assembly information rather than complete perspective. Do not document all calculations unless requested unless otherwise instructed. Measurements must include units. Significant figures must be used as indicated.

All problems require a clear drawing that identifies gear interactions.

Gears

A simple gear train is composed of three gears. Gear A is the driver with 10 teeth, gear B has 20 teeth, and gear C has 30 teeth.

1. Draw and describe the gear train below.



2. If the output is at C, what is the gear ratio?

Formula

Relationships

Final answer

$$\frac{N_A}{1} = \frac{N_B}{2} = \frac{N_C}{3}$$

$$\frac{N_A}{1} = \frac{N_B}{2} = \frac{N_C}{3}$$

$$\frac{N_A}{1} = \frac{N_C}{3} = 1$$

3. If gear sprockets were used how fast is gear C rotating?

Formula

Relationships

Final answer

$$\frac{N_A}{1} = \frac{N_B}{2} = \frac{N_C}{3}$$

$$\frac{N_A}{1} = \frac{N_B}{2} = \frac{N_C}{3}$$

$$N_C = 3N_A$$

Pltw Activity 5 1 Answer Key

Roman Wölfel



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Connecting Self-regulated Learning and Performance with Instruction Across High School Content Areas

Maria K. DiBenedetto, 2018-07-23 This book shows how principles of self regulated learning are being implemented in secondary classrooms The 14 chapters are theoretically driven and supported by empirical research and address all common high school content areas The book comprises 29 lesson plans in English language arts natural and physical sciences social studies mathematics foreign language art music health and physical education Additionally the chapters address students with special needs technology and homework Each chapter begins with one or more lesson plans written by master teachers followed by narratives explaining how the lesson plans were implemented The chapters conclude with an analysis written by expert researchers of the self regulated learning elements in the lessons Each lesson and each analysis incorporate relevant educational standards for that area Different types of high schools in several states serve as venues This powerful new book edited by Maria K DiBenedetto provides a unique and invaluable resource for both secondary teachers and researchers committed to supporting adolescents in the development of academic self regulation Each chapter is jointly written by teachers who provide a wealth of materials including lesson plans and researchers who situate these lesson plans and academic self regulation goals within the larger work on self regulation The topics covered are far broader than any other book I have seen in terms of developing academic self regulation covering over a dozen content areas including literacy mathematics social studies the sciences and the arts Teachers and scholars alike will find this book a must read Karen Harris EdD Arizona State University A practical and magnificent blend of educational research and application This book goes beyond presenting the findings of research on self regulation by connecting detailed strategies that align with the standards to the research DiBenedetto et al clearly illustrate how to develop self regulated learners in the classroom A refreshing must read for all secondary educators and educational researchers seeking to be well grounded in education research and practical application techniques Heather Brookman PhD Fusion Academy Park Avenue Self regulated learning is a research based process by which teachers help students realize their own role in the learning process Connecting Self Regulated Learning and Performance with Instruction Across High School Content Areas consists of model teachers lessons and analyses by prominent educational psychologists in the field of self regulated learning The book provides teachers with the tools needed to increase students awareness of learning and inspires all educators to use self regulated learning to promote engagement motivation and achievement in their students The book also provides administrators with the principles needed to infuse evidenced based self regulated learning into their curriculum and instruction I highly recommend the book Marty Richburg Northside High School [Empowering STEM Educators With Digital Tools](#) Papadakis, Stamatios, Kalogiannakis, Michail, 2024-12-13 Empowering STEM and language educators with digital tools improve teaching and learning practices in modern classrooms Advanced technology offers innovative resources that enhance instructional practices making complex

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