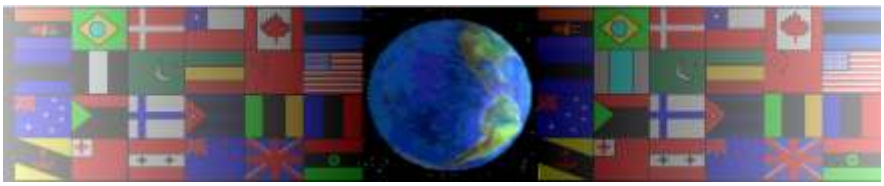
PULLEY SYSTEMS - VELOCITY RATIO

On behalf of The World Association of Technology Teachers

W.A.T.T.



World Association of Technology Teachers

This exercise can be printed and used by teachers and students. It is recommended that you view the website (www.technologystudent.com) before attempting the design sheet .

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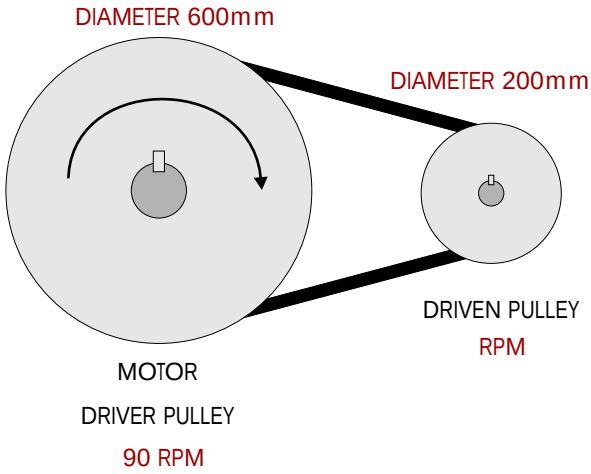
Two pulley systems are shown below. For each of the systems work out the velocity ratio. You must include all working out, including the formulas.

A.

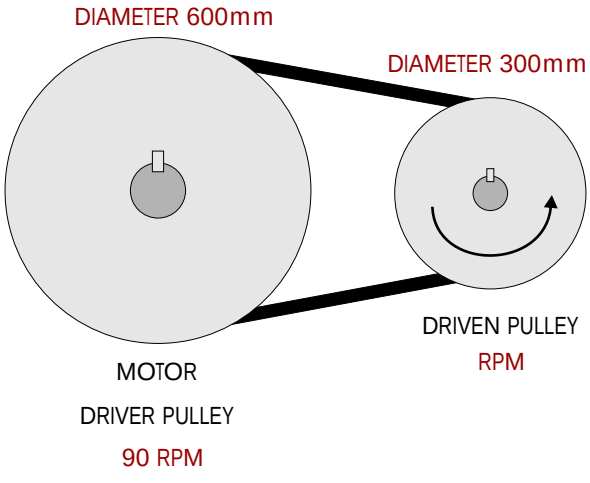


FORMULA:

What is the rpm of the driven pulley?

FORMULA:

A.



VELOCITY RATIO:

If the driven pulley rotates in an anti-clockwise direction, what is the direction of rotation of the driver pulley?