

18. In the space below, draw a gear system that changes the **speed** of motion **and** changes the **direction** of motion.
Label your picture so that it is clear.

Any gear system that includes 2 or more gears of different sizes would work. Spur and bevel set-ups will be the most common answers.

Explain how you know that your gear system changed the **speed** of motion.

The small gear rotates faster than the larger gear. You can use this system to increase or decrease the speed of motion, depending on the order of the gears.

Explain how you know that your gear system changes the **direction** of motion.

As long as the gear system has an even number of gears, motion will be moving in the opposite direction of which it started. For example, gear 1 moves clockwise, gear 2 moves counter-clockwise.

19. Identify the type of gear.

- a) spur gear
- b) bevel gear
- c) worm gear
- d) rack and pinion gear



20. Identify the type of gear.

- a) spur gear
- b) bevel gear
- c) worm gear
- d) rack and pinion gear



Gear And Pully Test Answers

Anthony S. Fauci



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calculamos $\frac{dx}{ds}$ es la derivada de x 3 sustituimos en la integral cambiamos x por $s^2 + 1$ y dx por $2s ds$ después integramos respecto de la nueva variable s operamos resolvemos simplificamos el resultado 4

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