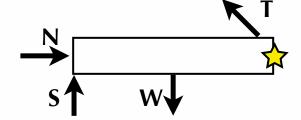
1. If a problem asks "How many times does the wheel go around?" it is asking for

- A) $\Delta\theta$
- **B**) ω
- \mathbf{C}) α
- 2. The figure shows the forces applied to a stationary rod. Which force(s) exerts a counterclockwise (\circlearrowleft) torque around the pivot (marked with a star)?



- A) N B) S C) T D) W E) T & W
- 3. The length of an arc of a circle is equal to its radius times its angle, if the angle is measured in
- A) degrees
- B) radians
- C) revolutions
- 4. The frequency f of a rotation is
- A) the angular velocity in rev/s
- B) the angular displacement in degrees
- C) the angular velocity in rpm
- D) the angular acceleration in rev/s²
- 5. A wheel has $\omega = -4$ rad/s and an angular acceleration of $\alpha = -3$ rad/s². The wheel is
- A) slowing down
- B) speeding up
- 6. Two points are marked on a spinning wheel. Which of the following is true about the points' linear velocities v and angular velocities $\mathbf{\omega}$?



A) $v_A = v_B$, $\omega_A > \omega_B$ B) $v_A = v_B$, $\omega_B > \omega_A$

C) $v_A > v_B$, $\omega_A = \omega_B$ D) $v_A < v_B$, $\omega_A = \omega_B$

