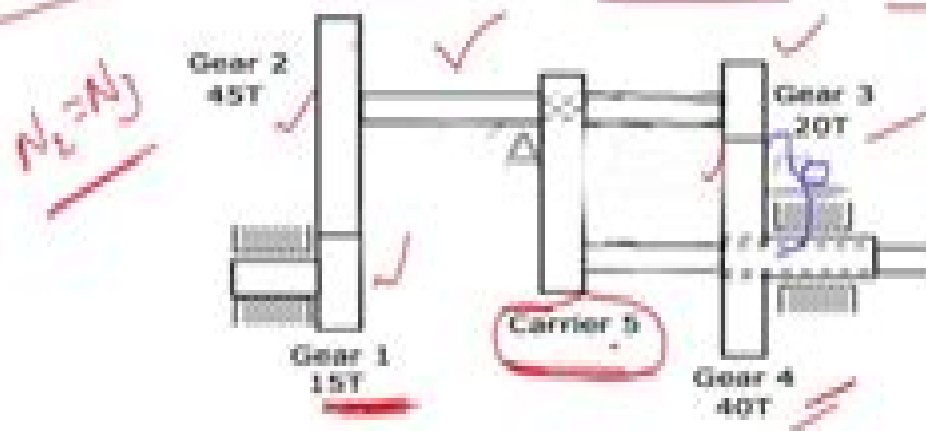


$\omega_1, \omega_2, \omega_3$ and ω_4 respectively. The carrier rotates with angular velocity ω_5 .



74. What is the relation between the angular velocities of Gear 1 and Gear 4?

(A) $\frac{\omega_1 - \omega_5}{\omega_2 - \omega_5} = 6$

(B) $\frac{\omega_3 - \omega_5}{\omega_1 - \omega_5} = 6$

(C) $\frac{\omega_1 - \omega_5}{\omega_2 - \omega_5} = -\left(\frac{2}{3}\right)$

(D) $\frac{\omega_2 - \omega_5}{\omega_1 - \omega_5} = \frac{8}{9}$

S.No	Action	Angular velocity				
		ω_5	ω_1	ω_2	ω_3	ω_4
1	Arm 5 fixed, Gear 1 one rotation	0	1	$-\frac{1}{3}$	$-\frac{1}{3}$	$-\frac{1}{6} \times -1$
2	Gear 1 'x' rotations	0	x	$-\frac{x}{3}$	$-\frac{x}{3}$	$+\frac{x}{6}$
3	Arm 5 'y' rotations	y	y	$y - \frac{x}{3}$	$y - \frac{x}{3}$	$y + \frac{x}{6}$

75. For $\omega_1 = 60$ rpm clockwise (c) : velocity of the carrier and its : (ccw) direction at twice the angular

(A) 130 rpm, cw

$$\begin{aligned}
 x + y &= \omega_1 \\
 \omega_1 &= x + \omega_5 \\
 \omega_4 &= y + \frac{x}{6} \\
 6\omega_4 - \omega_1 &= 5\omega_5 \quad \text{--- (1)}
 \end{aligned}$$

Epicyclic Gear Train Problems And Solutions

Frank A. Heacock



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