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Define the terms

Question:

Define the terms:

(i) Linear velocity

(ii) Angular velocity

(iii) Absolute velocity

(iv) Relative velocity

Answer:

Term	Definition	Mathematical/representation (optional)
Linear velocity	Rate of change of <u>linear displacement</u> per unit time	$V = \frac{d_s}{d_t}$ m/sec
Angular velocity	Rate of change of <u>angular displacement</u> per unit time	$\omega = \frac{d_\theta}{d_t}$ rad/sec
Absolute velocity	Velocity of any point with respect any point <u>fixed point</u>	V_{ao} ; velocity of point a w.r.t. o
Relative velocity	Velocity of any point with respect to <u>any other some point on the same link.</u>	V_{ab} ; velocity of point a w.r.t. b

