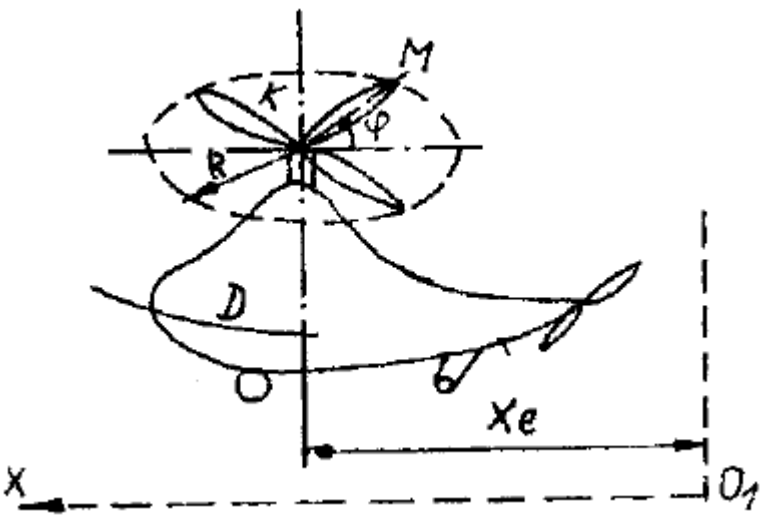
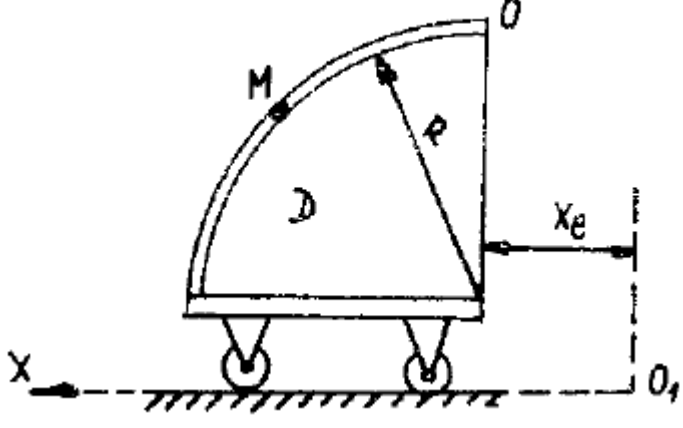
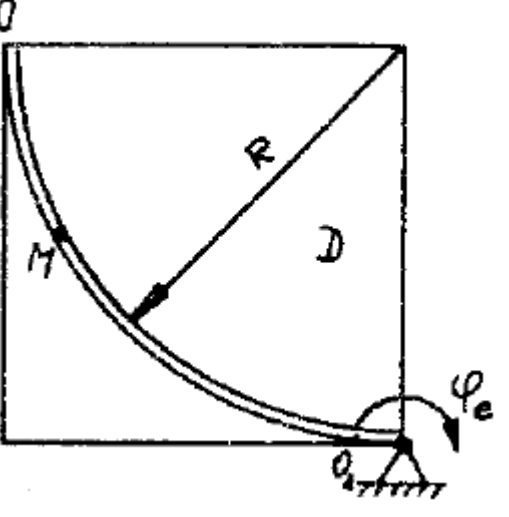
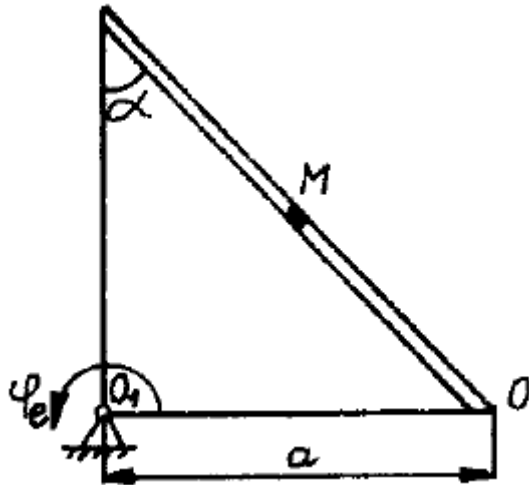


Having the equation for the relative motion of the point M and the lifting motion of the body D for time t_1 , determine the absolute (total) velocity and the absolute (total) acceleration of point M.

	$x_e(t) = 250t^2$ $\varphi(t) = 3\pi t^2$ $t_1 = \frac{5}{3}s$ $R = 60cm$
	$x_e(t) = 24t^2 + 7t$ $OM = s(t) = \frac{5}{3}\pi t^3$ $t_1 = 2s$ $R = 40cm$
	$\varphi_e(t) = 1,5t^2 + 0,75t$ $OM = s(t) = 150\pi t^3$ $t_1 = \frac{1}{6}s$ $R = 25cm$



$$\varphi_e(t) = 0,2t^3 + t$$

$$OM = s(t) = 5\sqrt{2}(t^2 + t)$$

$$t_1 = 2s$$

$$a = 60cm$$

$$\alpha = 45^\circ$$