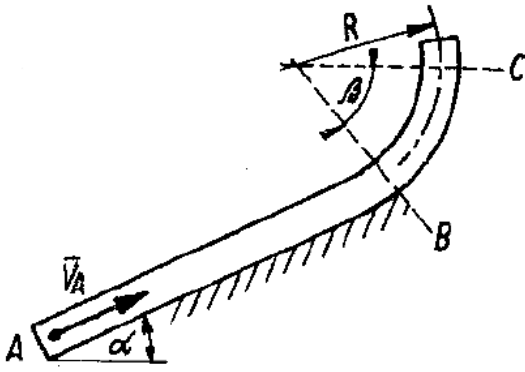
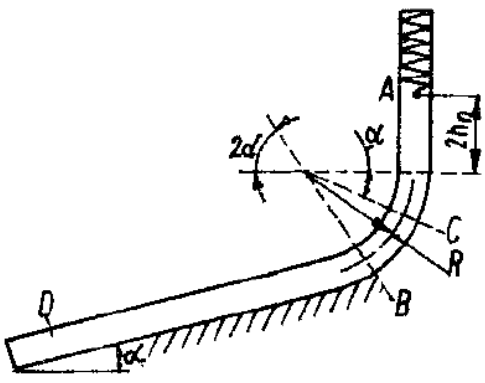
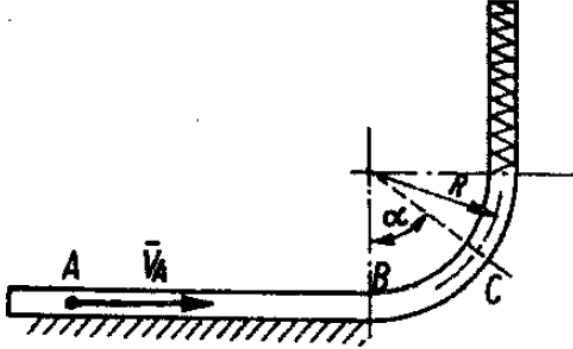
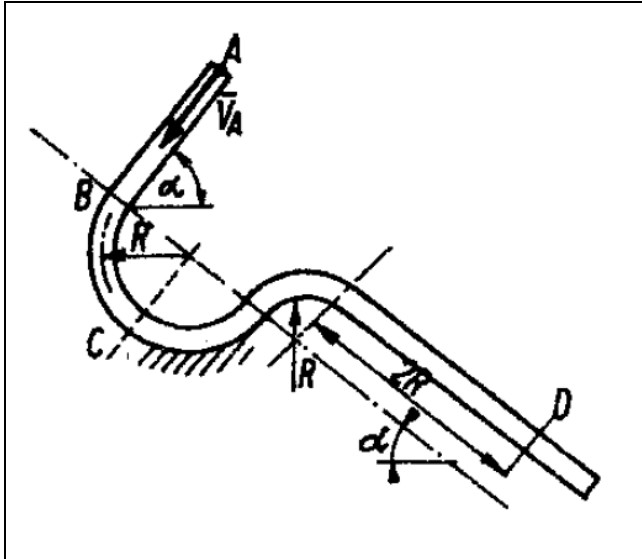


The ball, assumed as a material point, moves from position A inside the tube. Find the ball velocity at positions B and C and the pressure of the ball against the wall of the tube at position C. Ignore friction on the curved sections of the tube.

	$m = 0,5 \text{ kg}$ $V_A = 20 \text{ m/s}$ $t_{AB} = 2 \text{ s}$ $R = 2 \text{ m}$ $\mu = 0,20$ $\alpha = 30^\circ$ $\beta = 45^\circ$
	$m = 0,4 \text{ kg}$ $V_A = 0 \text{ m/s}$ $t_{BD} = 2 \text{ s}$ $R = 0,2 \text{ m}$ $\mu = 0,15$ $\alpha = 30^\circ$ $h_0 = 10 \text{ cm}$ $k = 1 \text{ N/cm}$ <i>Additionally find, V_D</i>
	$m = 0,2 \text{ kg}$ $V_A = 10 \text{ m/s}$ $t_{BD} = 1 \text{ s}$ $R = 0,5 \text{ m}$ $\mu = 0,1$ $\alpha = 60^\circ$ $k = 1,2 \text{ N/cm}$ <i>Additionally find, h how much spring will deflect</i>



$$m = 0,8 \text{ kg}$$

$$V_A = 3 \text{ m/s}$$

$$t_{AB} = 0,2 \text{ s}$$

$$R = 0,4 \text{ m}$$

$$\mu = 0,15$$

$$\alpha = 45^\circ$$

Additionally find, V_D