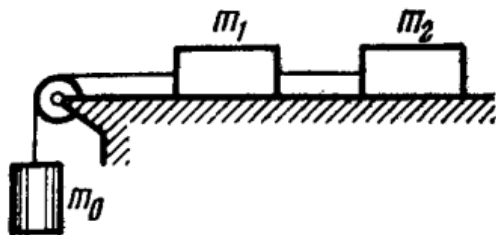




1. (7 ball) Normal sharoitda 10 mol vodorod qanday hajmni egallaydi?
2. (7 ball) $H=40\text{m}$ balandlikdan $v=20\text{m/s}$ tezlik bilan gorizantal otilgan jismni otilish nuqtasida traektoriyasining egrilik radiusini toping.
3. (10 ball) Oqim bo'ylab harakatlanayotgan motorli qayiq A nuqtada solni uchratdi shundan so'ng 30min harakatlanib so'ngra orqaga qaytdi va sol bilan ikkinchi marta A nuqtadan 3km uzoqlikda uchrashdi. Motorli qayiqni suvga nisbatan tezligini o'zgarmas deb oqim tezligini toping.
4. (10 ball) Rasmdagi jismlar sistemasini tezlanishini toping? Hech qayerda ishqalanish yo'q.



5. (16 ball) Bir atomli ideal gaz siklik jarayonni amalga oshirmoqda, bunda u dastlab izoxorik ravishda isitiladi natijada bosim N marta ortadi. So'ngra gaz izobarik ravishda yana isitiladi bunda uning hajmi K marta ortadi. Oxirida esa gaz o'zining dastlabki holatiga shunday qaytariladiki, uning bosimi hajmga chiziqli bog'lanishda bo'ladi. Siklning FIK ni toping.