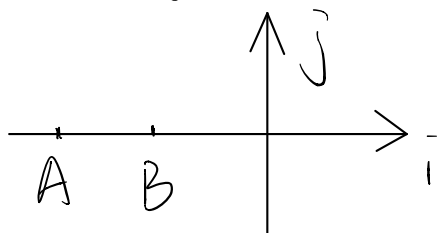


1. 知识点

• i & j

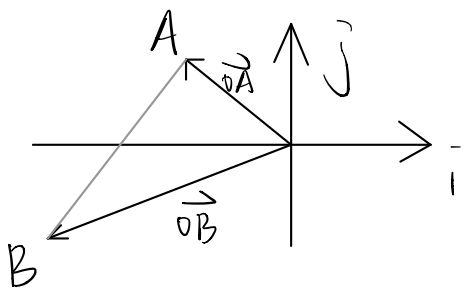
1. 求 speed 必须以最后 velocity $i+j$ 形式开根号 \star P76

2. ① A is due west of B



A 与 B j 相等. 画图

② B is southwest of A



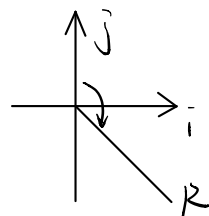
$$A - B = a + ibj$$
$$a = b$$

2019.1 ②

3. bearing 只能取整数

$149.49^\circ \approx 150^\circ$
不要提前保留小数

4. angle between R and vector j
是直线与正轴的角度. 不是点 \checkmark



$$5. \vec{PQ} = Q - P \text{ (位置向量)}$$

● 相连系统

1. how you use the fact that ... is inextensible
一个连接 2 运动物体 in 硬杆 \uparrow

the acceleration of ... & ... are the same

P33

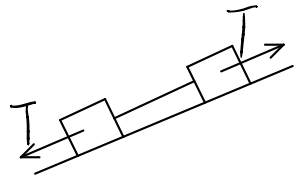
2. towbar 为硬杆. 相连两物体有 tension

P72

3. 只要有紧绷的绳子相连, 中间就有 tension

2018.6

4. thrust 在硬杆中指硬杆给左右两边物体的力
要分析哪边有力



● 杠杆

1. rope remain taut \star

P63 & P81

2. 一个力 in 最大值 \star

P88

3. string slack 未拉直

2019.10. ①

● 动量

1. 列方程 按 clockwise = anticlockwise

2. Impulse 单位 Ns

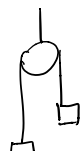
3. P 是 vector 要规定方向

2. 论述题

① 如何使 $v-t$ 图像更 realistic
减小 v & t 的时间间隔

② modelling assumption:

— (相连系统) string is inextensible
acceleration of 2 particles in each side of string is the same

— (相连系统) pulley is smooth 
tension in both sides of pulley are the same

— (相连系统) string is light
constant tension throughout the string

— (杠杆) 重物是 particle
the weight of the particle act at B

— (杠杆) plank is rod
mass is concentrated along a line 质量沿水平方向分布
beam won't bent