

第三章：直线运动 (2003年-2017年)

① D

② D

③ $u = 10$ $s = ut + \frac{1}{2}at^2$
 $s = -60$ $-60 = 10t + \frac{1}{2}(-9.8)t^2$
 $t = ?$ $0 = 4.9t^2 - 10t - 60$
 $a = -9.8$ $t = 4.67s$ #

D

④ B

⑤ $u = 10$ $v^2 = u^2 + 2as$
 $s = d$ $20^2 = 10^2 + 2ad$
 $v = 20$ $a = \frac{150}{d}$
 $a = ?$

$u = 10$ $v^2 = u^2 + 2as$
 $s = \frac{1}{4}d$ $= 10^2 + 2 \times \frac{150}{d} \times \frac{d}{4}$
 $v = ?$ $= 13.2 \text{ ms}^{-1}$ #
 $a = \frac{150}{d}$

A

⑥ A

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