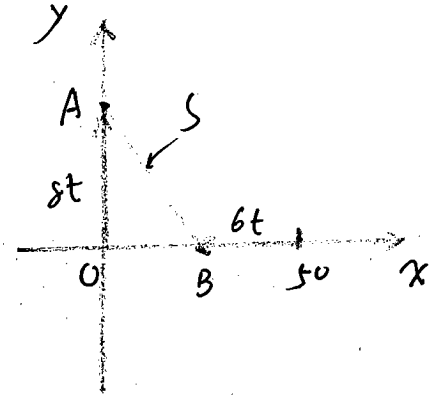
P.207-12.

2011 20/7 — 100



$S^2 = (8t)^2 + (50-6t)^2$

$(S^2)'_t = 128t + 2\cdot(50-6t)\cdot(-6)$

$= 128t - 12(50-6t) = 200t - 600$

令 $(S^2)' = 0$，则 $200t = 600$，$t = 3$(分)

$S_{最近} = \sqrt{(8\times3)^2 + (50-18)^2} = \sqrt{24^2+32^2}$

$= \sqrt{576+1024}$

$= \sqrt{1600} = 40$(m).