

科目：普通物理

適用：應光系

編號：396

考生注意：

1. 依次序作答，只要標明題號，不必抄題。
2. 答案必須寫在答案卷上，否則不予計分。
3. 限用藍、黑色筆作答；試題須隨卷繳回。

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1. Your roommate is working on his bicycle and has the bike upside down. He spins the 60-cm-diameter wheel, and you notice that a pebble stuck in the tread goes by three times every second. What are the pebble's speed and acceleration?

(50%)

2. A thin, square conducting plate 50 cm on a side lies in the xy plane. A total charge of 6×10^{-8} C is placed on the plate. Find (a) the charge density on the plate, and (b) the electric field just above the plate. You may assume that the charge density is uniform. ($\epsilon_0 = 8.85 \times 10^{-12}$ C²/N·m²) ((a) 25%, (b) 25%)

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