Exercise on xiéshēngzì 3

Study the following sets of xiéshēngzì, and answer the questions below

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| 桃táo跳tiào | 兆zhào晁cháo |
| 登dēng燈dēng | 澄chéng橙chéng |
| 帶dài | 滞zhì |
| 奠diàn | 鄭zhèng |

（Source of data: see <http://zh.wikipedia.org/wiki/古無舌上音>）

1. Identify the common component for each set
2. In terms of the place of articulation of the initials in each group, what places of articulation are there in each set?
3. What is the principle of using xiéshēngzì for studying Old Chinese initials?
4. If you put your answers to question 2 and question 3 together, what conclusion can you draw?
5. Qian Daxian discovered this fact first. What was his original claim?