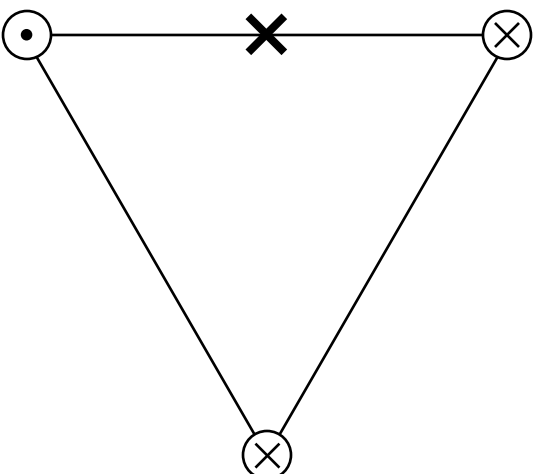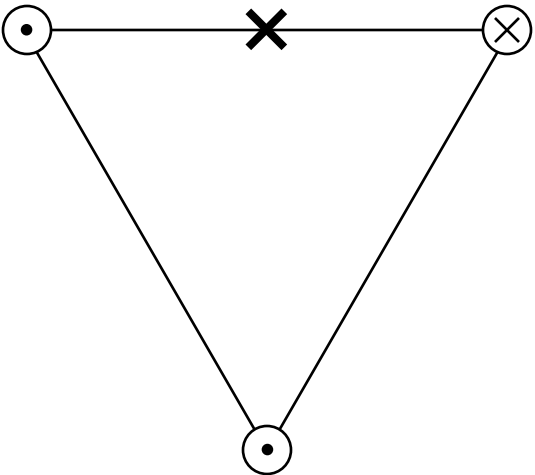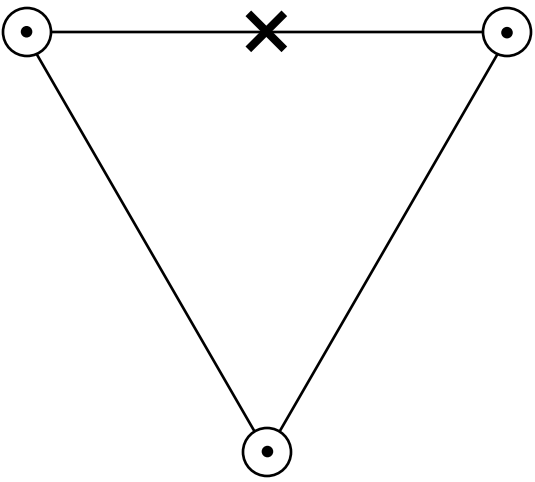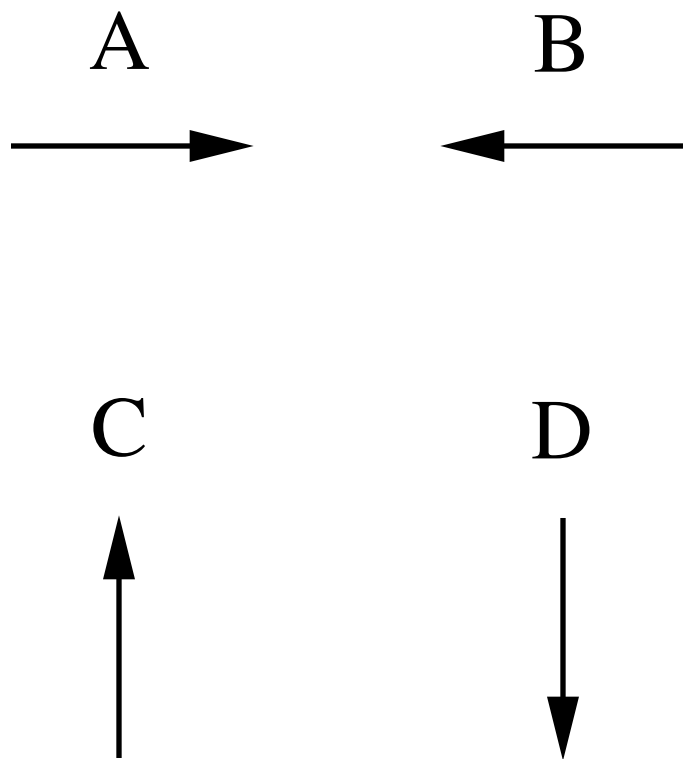Long straight wires, carrying equal currents, are placed at the corners of an equilateral triangle. Which vector best displays the direction of the magnetic field at X?
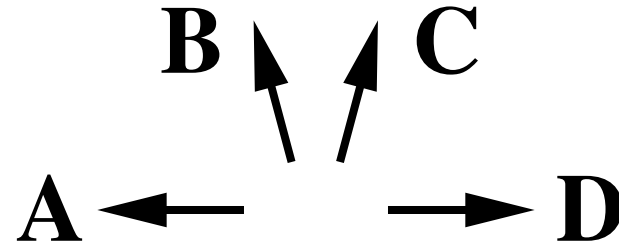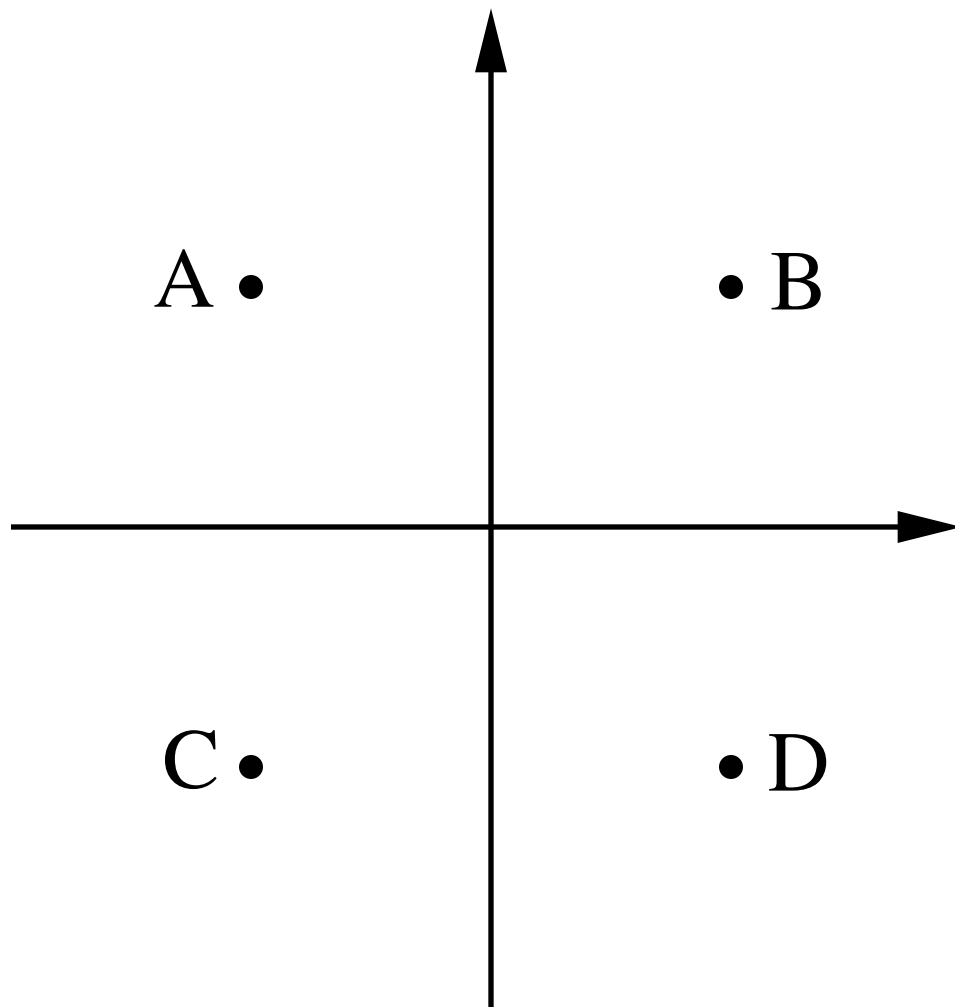
One current is now reversed...

Another current is reversed...

I

⊙
out

•
P

I

⊗
in

A →

B ←

C ↑

D ↓

Wire 1 has a large current I flowing out of the page (⊙), as shown in the diagram. Wire 2 has the same current I, but flowing into the page (⊗).
In what direction does the magnetic field point at position P?

A •

• B

• B

C •

• D

Crossed wires each carry the same current I.

Which point has a magnetic field pointing out of the page?

Into the page?

Zero?

Each of the below loops carries a current I. Which has the biggest magnetic dipole moment?

Smallest?