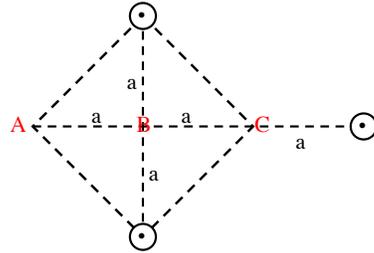


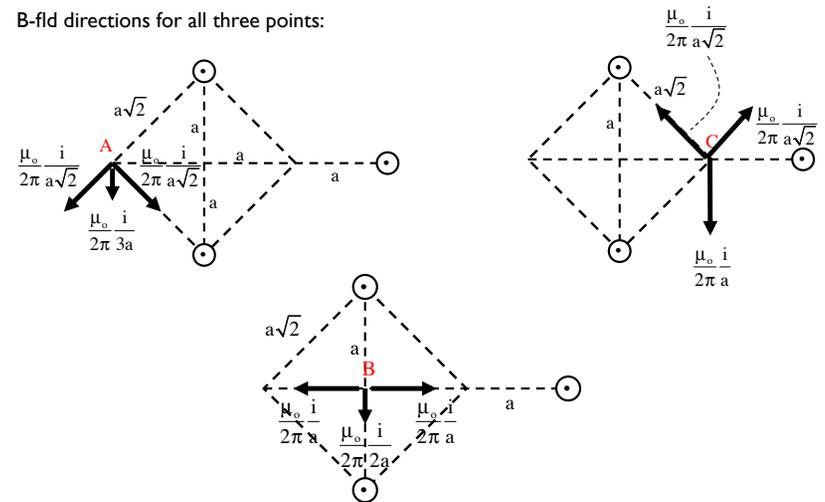
Problem 19.71

Assuming the current in each wire is 2 amps and $a = .01$ meters, determine the magnetic field at A, B and C.



1.

B-fld directions for all three points:



To finish off each, just sum vectorially.

3.

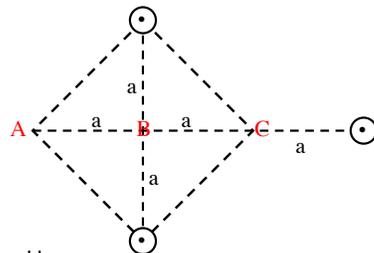
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Assuming the current in each wire is 2 amps and $a = .01$ meters, determine the magnetic field at A, B and C.

The magnetic field directions can be had using the right thumb rule (we did this in class). Do it!. Notice when you are done that at Point A, the x-components will add to zero leaving only components in the -j direction. The magnitudes can be determined using:

$$\frac{\mu_0 i}{2\pi r}$$

which you should by now have come to know and love.



2.