1.) *Draw and Label* the **Geostrophic Wind**, Pressure Gradient Force (**PGF**), and Coriolis Force (**CF**) at point **a**.

![Diagram showing geostrophic wind, pressure gradient force, and coriolis force at point a.](image-url)
2.) *Draw and Label* the **Geostrophic Wind**, Pressure Gradient Force (PGF), and Coriolis Force (CF) at point b.

3.) *Circle the correct answers*

Comparing questions 1 and 2 the geostrophic wind at point (a / b) is greater than the Geostrophic wind at point (a / b) because the (pressure / coriolis) gradient is (tighter / weaker).
4.) *Draw and Label* the **Gradient Wind**, Pressure Gradient Force (PGF), Coriolis Force (CF), and Centrifugal Force (Ce) around the High and Low at points a and b.
5.) Answer the Following Questions about the attached map.

   a.) Looking at the wind Flow (ie direction around the isobars) is this a High or a Low?

   b.) Is the flow around the circulation clockwise or counterclockwise?

   c.) Is the wind at point C over Virginia in Geostrophic Balance?

   d.) Is the wind at point D over Alabama in Geostrophic Balance?