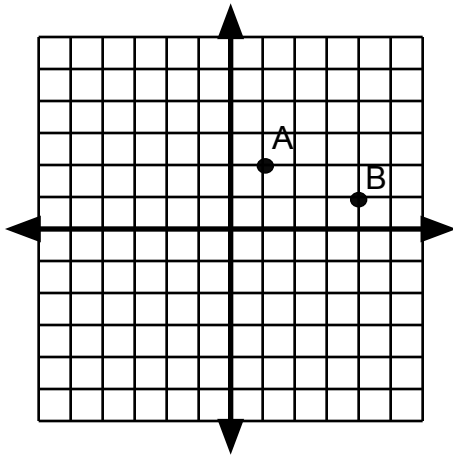


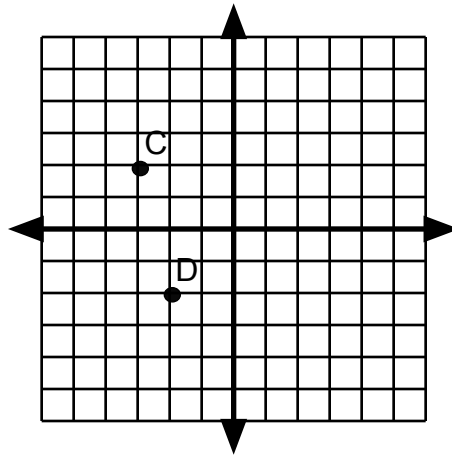
Precalc. BC 2-Dimensional Numbers - Addition Name

Perform the indicated operations below.

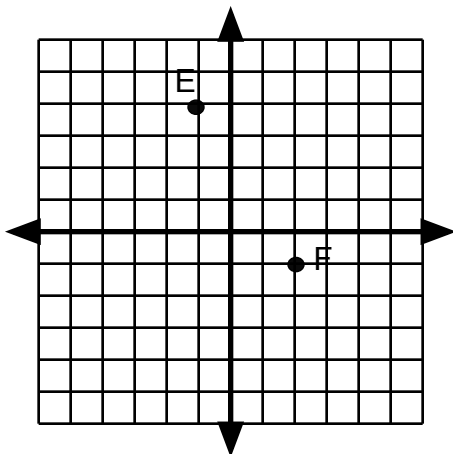
1. Find and label: $(a+b)$, $-a$, and $-b$.



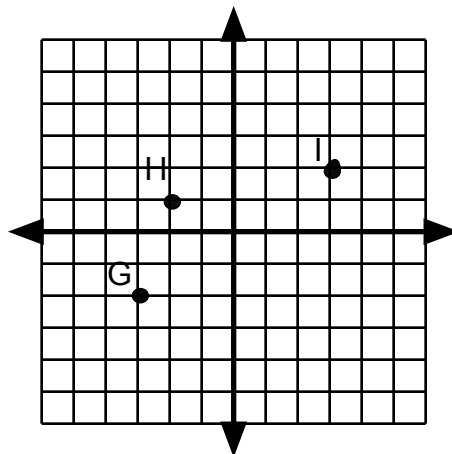
2. Find and label: $(C+D)$, $(C-D)$, and $(D-C)$
note: $c - d = c + (-d)$



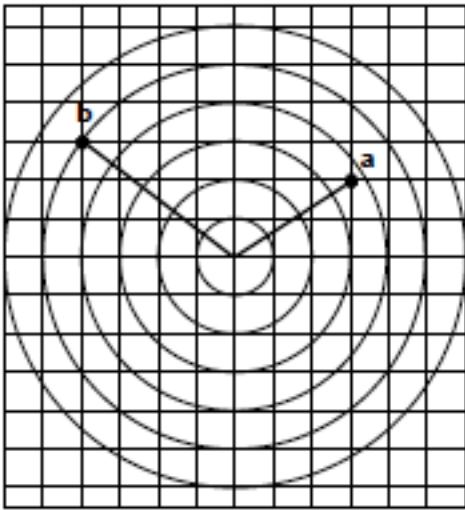
3. Find and label: $(E+F)$, $(E-F)$, and $(F-E)$



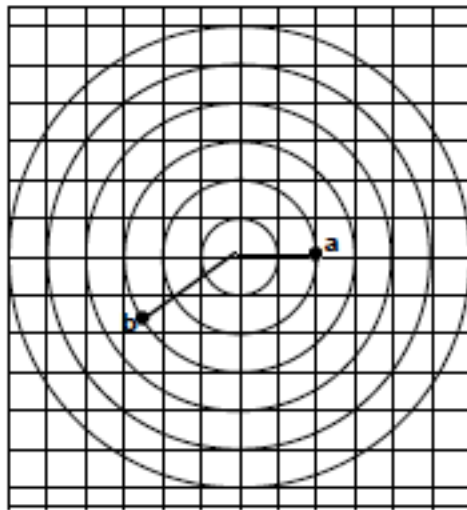
4. Demonstrate the associative property
 $G+(H+I) = (G+H)+I$



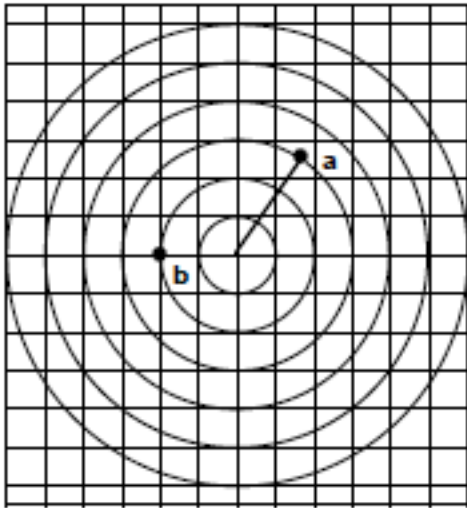
For each graph below find the sum or product of the 2-D geometric numbers. Use the grid to guide you, but think *geometrically!*



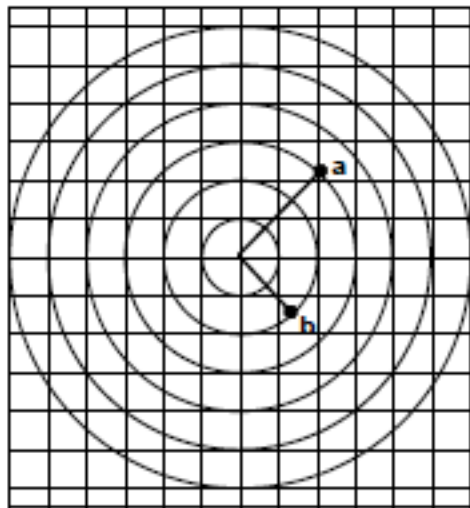
Find $a + b$ and label it **S**. Then find $a - b$ and label it **D**. Find $b - a = E$



Find $a \times b$
(*hint: a is also a 1-dimensional number*)



Find $a \times b$
(*hint: b is also a 1-dimensional number*)



Find $a \times b$
(*hint: think about magnitude and direction independently. Be consistent with the previous two problems.*)