

## Topic: Complex Numbers

### Graphing Complex Numbers



Watch (and take notes) the lecture called Graphing Complex Numbers.

Graph each expression. Label the real and imaginary axis. *If there are any problems you don't know how to do, you should probably do those before you attempt the Prove It problems.*

22.  $-3 + 2i$

23.  $3i$

24.  $5 - i$

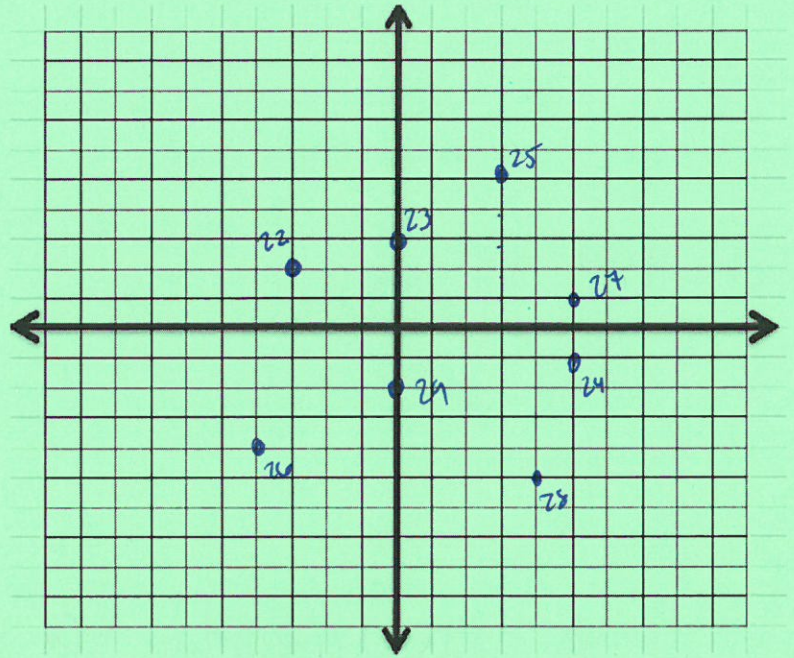
25.  $3 + 5i$

26.  $-4 - 4i$

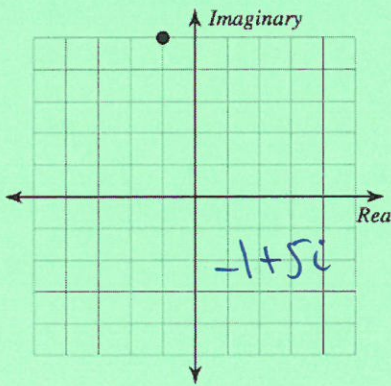
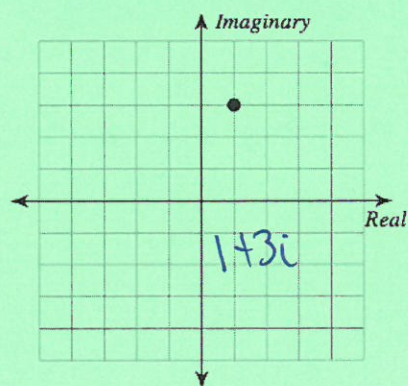
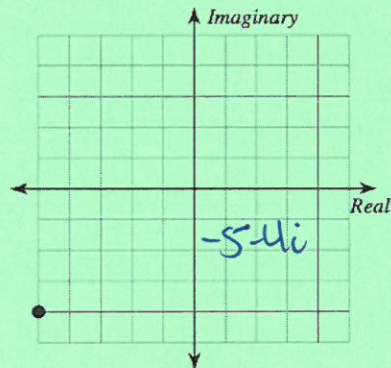
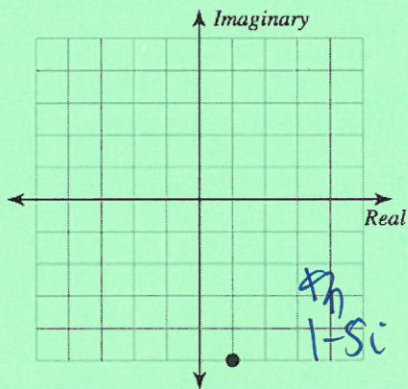
27.  $5 + i$

28.  $4 - 5i$

29.  $-2i$



30.



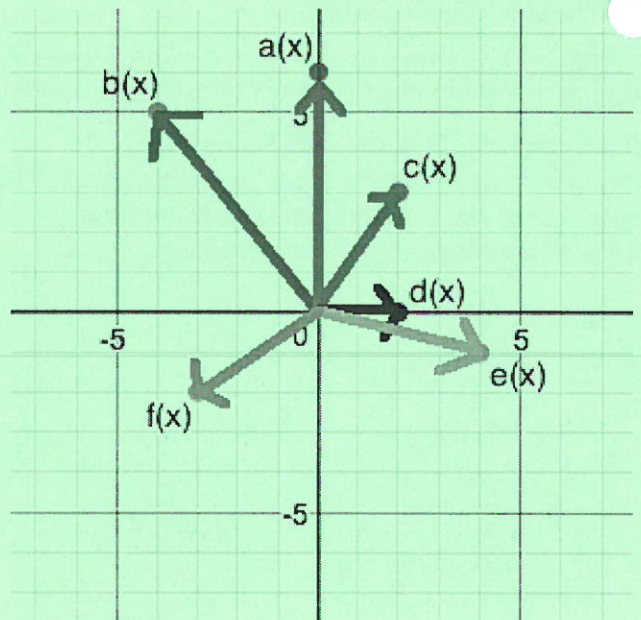
**Complex Numbers (Level 4)**

- Choose a graph from the complex plane to be your solution. Write the solution on the line next to the problem.
- Create two functions, such that when performing the operation given, it results in the graph you selected.

31.  $g(x) + h(x) =$  \_\_\_\_\_

32.  $j(x) - k(x) =$  \_\_\_\_\_

33.  $m(x) * n(x) =$  \_\_\_\_\_



Do Ms Lambert for answers