

Complex Numbers 4

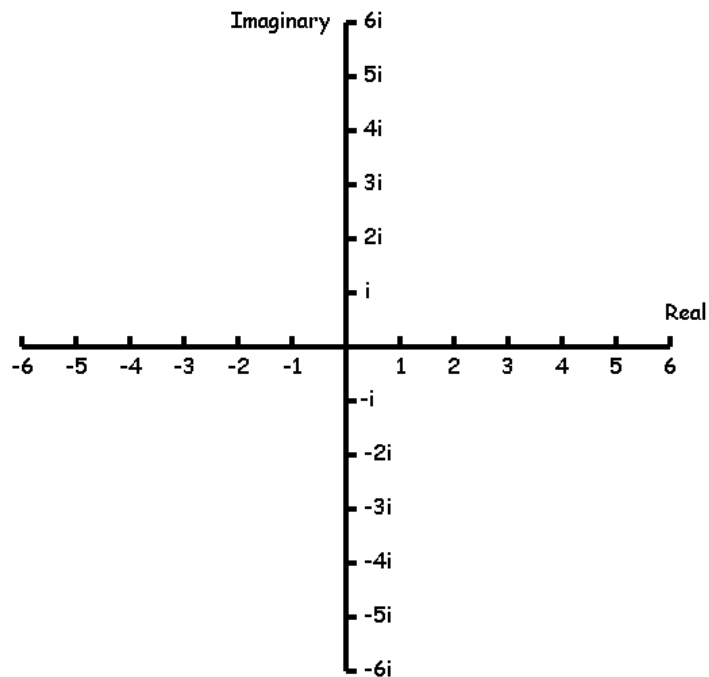
Due in before 4th May.

Complete the worksheet, take a photo and email it to johnkennedy@brilliantmont.ch

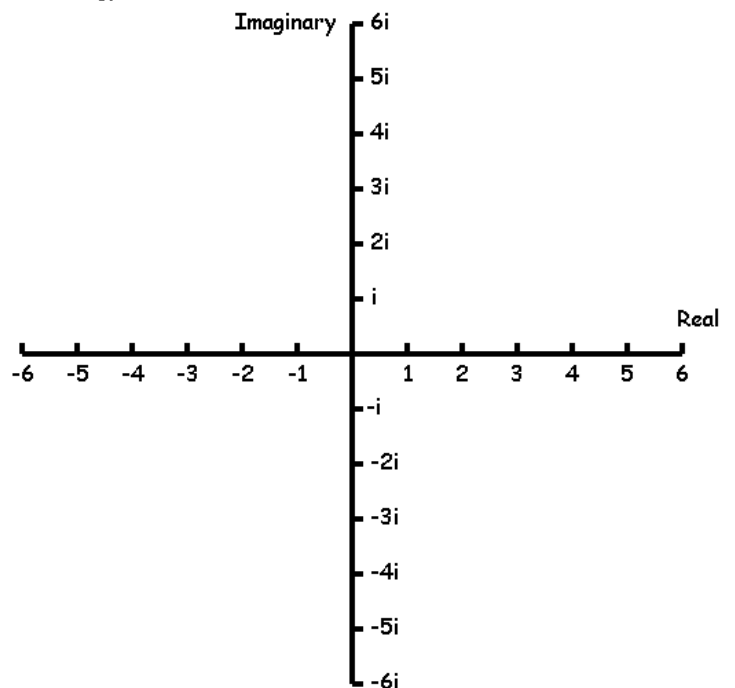
Name.....

Draw these complex numbers on an Argand Diagram:

1. $z_1 = 3 + 2i$
2. $z_2 = 5 + 6i$
3. $z_3 = -2 + 2i$
4. $z_4 = -5 + i$
5. $z_5 = -6i$



6. $z_6 = \frac{3}{2} + 4i$
7. $z_7 = -\frac{5}{2} + \frac{2}{3}i$
8. $z_8 = -3 - \frac{4}{5}i$
9. $z_9 = 6(1 + i)$
10. $z_{10} = \frac{4+2i}{2}$



11. For these complex numbers, sketch the solution to each calculation on the Argand Diagrams provided.

$$z_1 = 1 + 2i$$

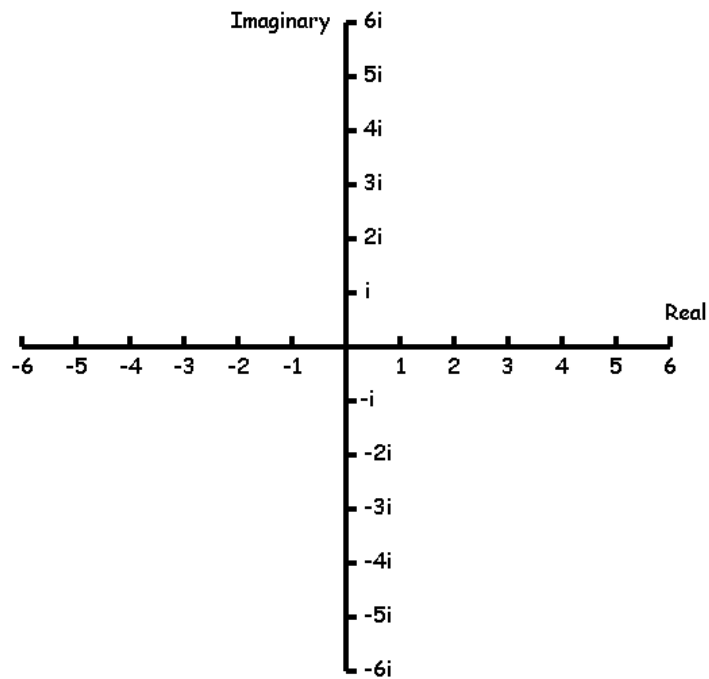
$$z_2 = 3 - i$$

$$z_3 = -2 + 2i$$

$$z_4 = i$$

Draw these complex numbers on an Argand Diagram:

- a. $z_1 + z_2$
- b. $z_1 - z_3$
- c. $z_2 + 5z_4$
- d. $(z_1)^2$
- e. $z_2 z_4$



- a. $z_1 \div z_2$
- b. $z_2 + z_3 z_4$
- c. $(z_4)^3 + z_3$
- d. $z_1 z_3 \div z_2$
- e. $z_4 \div z_1$

