

Complex Numbers 1

Due in before 1st May.

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

Name.....

Simplify these expressions:

1. $i + i =$

2. $i^2 + 5i =$

3. $4i - 7i =$

4. $6i + 4i - 21i =$

5. $i^2 =$

6. $60i^2 + 10 =$

Section 2: Use these complex numbers to simplify the expressions below:

$$z_1 = 4 + i$$

$$z_2 = 3 - i$$

$$z_3 = 1 + 10i$$

7. $z_1 + z_2 =$

8. $z_1 - z_3 =$

9. $z_1 + 2z_2 =$

10. $4z_1 + 3z_3 =$

11. $z_1 + z_2 + z_3 =$

12. $4i^2 + 5i - 3i^2 =$

13. $(i^2)^2 =$

14. $(5i^2)i + 8i =$