

Complex Numbers 5

Due in before 8th May.

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

Name.....

Simplify these expressions:

1. $\sqrt{-49}$

2. $\sqrt{-121}$

3. $\sqrt{-900}$

4. $\sqrt{-17}$

5. $\sqrt{-81} \times i$

Solve these equations using the quadratic formula. They may have real or complex roots.

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

6. $x^2 + 11x - 30$

$a =$

$b =$

$c =$

7. $x^2 - 4x + 5$

$a =$

$b =$

$c =$

8. $x^2 - 6x + 13$

$a =$

$b =$

$c =$

9. $x^2 - 11x + 28$

$a =$

$b =$

$c =$

10. $x^2 - 2x + 17$

$a =$

$b =$

$c =$

11. $x^2 - 10x + 89$

$a =$

$b =$

$c =$

12. $3x^2 - 6x + 51$

$a =$

$b =$

$c =$

13. $2x^2 + 3x - 14$

$a =$

$b =$

$c =$

14. $5x^2 - 50x + 250$

$a =$

$b =$

$c =$