Problem Questions 1.6

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Here we will have the written answers to selected problems that do not require code or drawings to solve.

1 Fields

1.1

1.2

1.3

1.4

1.5

1.6

1.7 Review

1. The complex numbers, the reals, and the integers.
2. z.real − z.imag, and the formula for the absolute value of a complex number is $z * z_c$
3. Adding the real and imaginary components seperately.
4. Putting them in an equation and using distributive property.
5. Adding two complex numbers together.
6. Multiplying a real number by a complex number.
7. Multiplying by -1.
8. Multiplying by $e^{\frac{\pi i}{2}}$.
9. Adding the two bits and then applying modulo 2.
10. Setting the result to 0 if one of the bits is 0 and 1 otherwise.