Assignment 4

Due on 2021-03-17, 23:59:57.

1. Write the following letters out in full; what are the resulting variables?
   a) $x$, $y$, $z$
   b) $A$, $B$, $C$
   c) $I$, $II$, $III$

2. Write the following letters out in full; what are the resulting variables?
   a) $\alpha$, $\beta$, $\gamma$
   b) $\Delta$, $\Psi$, $\Theta$
   c) $\alpha$, $\beta$, $\gamma$

3. In the following inequalities, for which values of $a$, $b$, and $c$ does equality hold?
   a) $ax + by + cz = 0$
   b) $ax^2 + by^2 + cz^2 = 0$
   c) $ax^3 + by^3 + cz^3 = 0$

4. In the following equalities, for which values of $a$, $b$, and $c$ does equality hold?
   a) $ax + by + cz = 0$
   b) $ax^2 + by^2 + cz^2 = 0$
   c) $ax^3 + by^3 + cz^3 = 0$

5. In the following inequalities, for which values of $a$, $b$, and $c$ does equality hold?
   a) $ax + by + cz = 0$
   b) $ax^2 + by^2 + cz^2 = 0$
   c) $ax^3 + by^3 + cz^3 = 0$

6. In the following equalities, for which values of $a$, $b$, and $c$ does equality hold?
   a) $ax + by + cz = 0$
   b) $ax^2 + by^2 + cz^2 = 0$
   c) $ax^3 + by^3 + cz^3 = 0$