

## Inequalities Theorem Techniques And Selected Problems

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### Inequalities: Theorems, Techniques and Selected Problems ...

The new inequality in Theorem 2.1 proposed in this paper is easy to use and expand, and many new inequalities can be derived and obtained by direct calculation, so it has a wide range of applications.

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well-known inequalities: $a + b > c, a + c > b, b + c > a$ . But also useful and frequent substitutions are:  $a = x + y, b = y + z, c = z + x$ , where  $x, y, z > 0$ . (3.1) The question is whether there are always positive real numbers  $x, y, z$ , such that the above identities (3.1) hold and  $a, b, c$  are the sides of the triangle. The answer is positive.

### Inequalities: Theorems, Techniques and Selected ...

The following inequality is very simple but it has a very important role, as we will see later. Exercise 1.4 Let  $a, b, c \in \mathbb{R}$ . Prove the inequality.  $a^2 + b^2 + c^2 \geq ab + bc + ca$ . Solution Since  $(a-b)^2 + (b-c)^2 + (c-a)^2 \geq 0$  we deduce  $2(a^2 + b^2 + c^2) \geq 2(ab + bc + ca) \Rightarrow a^2 + b^2 + c^2 \geq ab + bc + ca$ . Equality occurs if and only if  $a = b = c$ .

### Inequalities

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### Inequalities Theorem Techniques And Selected Problems

Here, we used the well-known inequalities  $p^2 + q^2 \geq 2pq$  and  $(p+q+r)^2 \geq 3(pq+qr+rp)$ . Theorem 1.2.1. (Hadwiger-Finsler inequality) For any triangle ABC with sides  $a, b, c$  and area  $F$ , the following inequality holds.  $2ab + 2bc + 2ca \geq (a^2 + b^2 + c^2) + 4\sqrt{3}F$ : First Proof. After the substitution  $a = y + z, b = z + x, c = x + y$ , where  $x, y, z > 0$ , it becomes  $xy + yz + zx \geq 3xyz/(x + y + z)$ ;

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