

#### 4. Mustaqil ishlash uchun misollar

**1-masala.**  $a, b, c > 0$  bo'lsa, isbotlang:

$$a/(b + c) + b/(c + a) + c/(a + b) \geq 3/2$$

**2-masala.**  $a, b, c > 0$  bo'lsa, isbotlang:

$$(a/b + b/c + c/a)(b/c + c/a + a/b) \geq 9$$

**3-masala.**  $a, b, c > 0$  bo'lsa, isbotlang:

$$(a^2/(b + c) + b^2/(c + a) + c^2/(a + b)) \geq (a + b + c)/2$$

**4-masala.**  $a, b, c$  haqiqiy sonlar bo'lib,  $a^2 + b^2 + c^2 = 1$  bo'lsa, maksimal qiymatni toping:

$$a + 2b - 2c$$

**5-masala.**  $a, b, c > 0$  bo'lsa, isbotlang:

$$(a^2/b + b^2/c + c^2/a) \geq a + b + c$$