2(х-7)(х+8)≥0

2(х2+8х-7х-56)≥0

2(х2+х-56)≥0

2х2+2х-112≥0

2х2+2х-112=0

D= b2 – 4ac

D= 4+4\*2\*112=900

X1.2= -b ± $√D$

 2a

X1= -2+30 = 7

 2\*2

X2= -2-30 = -8

 2\*2

Ответ: (-∞ ; -8] $∪$ [ 7; +∞)