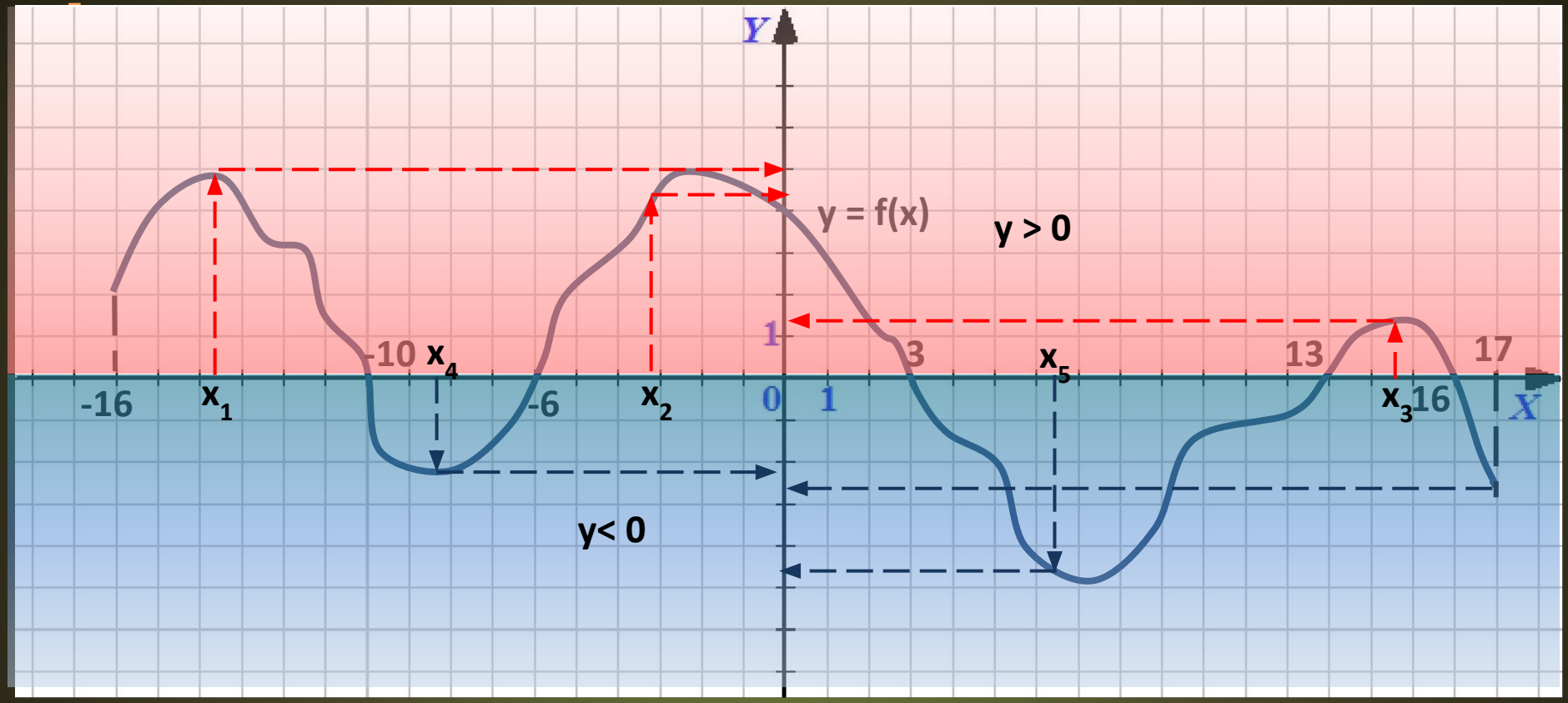
Дан график



y > 0, x ∈ [-16; -10); (-6; 3); (13; 16).

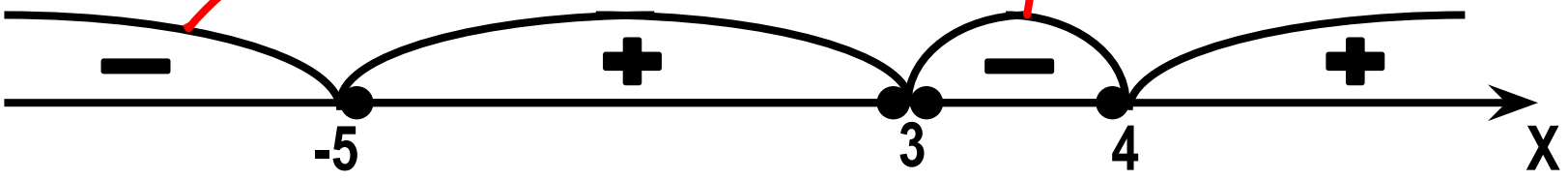
y < 0, x ∈ (-10; -6); (3; 13); (16; 17].

x	[-16;-10)	(-10;-6)	(-6;3)	(3;13)	(13;16)	(16;17]
y	+	-	+	-	+	-
	$y(x_1) > 0$	$y(x_4) < 0$	$y(x_2) > 0$	$y(x_5) < 0$	$y(x_3) > 0$	$y(17) < 0$

Решите неравенство: $(x-3)(x+5)(2x-8)<0.$

$y=(x-3)(x+5)(2x-8)$ **D(f) = R**

Нули функции: $x_1 = 3$; $x_2 = 4$; $x_3 = -5$.



$(-6-3)(-6+5)(2\cdot(-6)-8)<0;$

$(0-3)(0+5)(2\cdot 0-8)>0;$

$(3{,}5-3)(3{,}5+5)(2\cdot 3{,}5-8)<0;$

$(5-3)(5+5)(2\cdot 5-8)>0.$

Ответ $:(-\infty;-5);(3;4).$