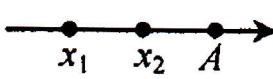
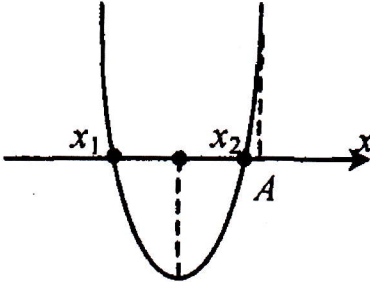
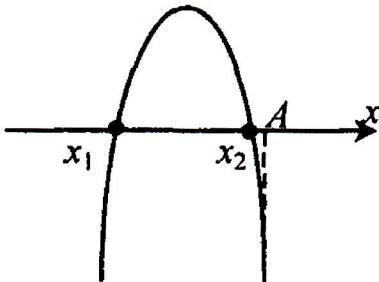

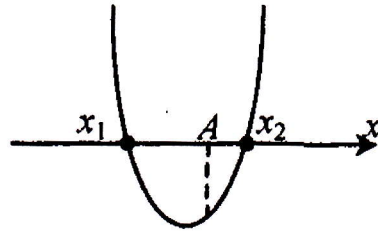
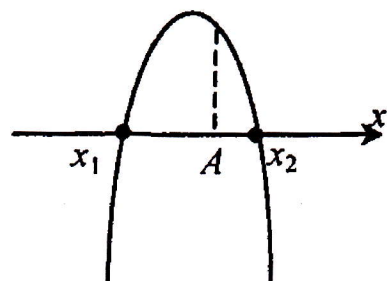
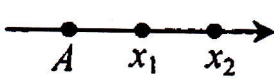
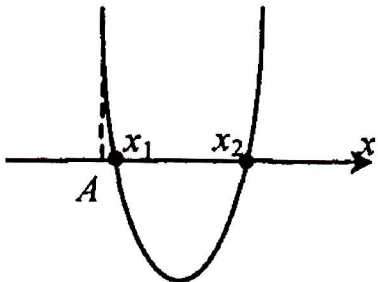


# ИССЛЕДОВАНИЕ КОРНЕЙ КВАДРАТНОГО ТРЕХЧЛЕНА

$x_1$  и  $x_2$  – корни квадратного трехчлена  $ax^2 + bx + c$ ;  $D > 0$ .

Пусть  $f(x) = ax^2 + bx + c$ .

Условия для корней	$a > 0$	$a < 0$
1	2	3
<p>1.</p> $x_1 < A$ $x_2 < A$ 	$\begin{cases} -\frac{b}{2a} < A \\ f(A) > 0 \end{cases}$ 	$\begin{cases} -\frac{b}{2a} < A \\ f(A) < 0 \end{cases}$ 
<p>2.</p> $x_1 < A < x_2$ 	$f(A) < 0$ 	$f(A) > 0$ 
<p>3.</p> $x_1 > A$ $x_2 > A$ 	$\begin{cases} -\frac{b}{2a} > A \\ f(A) > 0 \end{cases}$ 	$\begin{cases} -\frac{b}{2a} > A \\ f(A) < 0 \end{cases}$ 