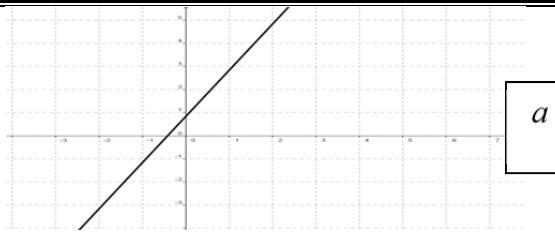
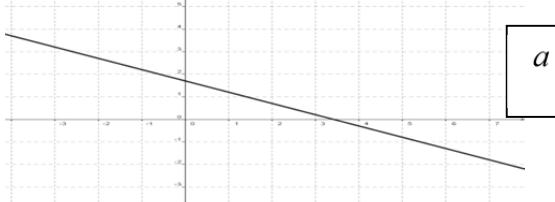
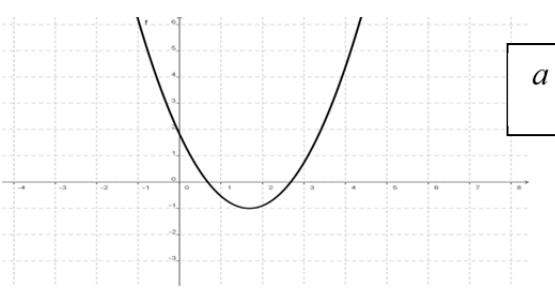
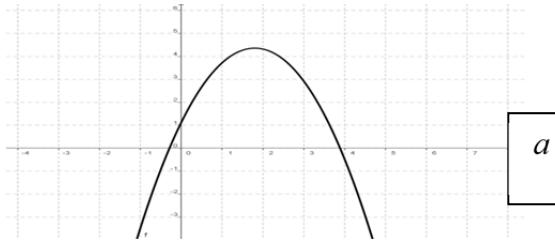
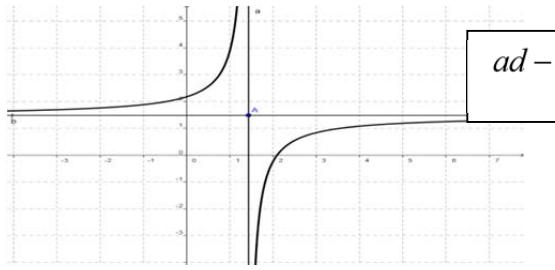
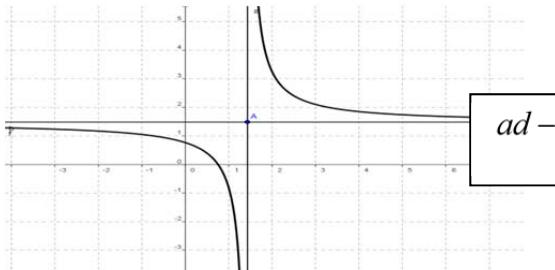




<b>التمثيل المباني</b>	<b>الخصائص</b>	<b>الدالة</b>								
 $a > 0$	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="padding: 5px;"><math>x</math></td> <td style="padding: 5px;">-</td> <td style="padding: 5px;"><math>\infty</math></td> <td style="padding: 5px;"><math>+\infty</math></td> </tr> <tr> <td style="padding: 5px;"><math>f(x)</math></td> <td style="padding: 5px;"></td> <td colspan="2" style="text-align: center; padding: 5px;">↗</td> </tr> </table> <p style="text-align: center;"><math>y = ax + b</math> مستقيم معادلته (<math>Cf</math>)</p>	$x$	-	$\infty$	$+\infty$	$f(x)$		↗		$f(x) = ax + b$ $a \neq 0$
$x$	-	$\infty$	$+\infty$							
$f(x)$		↗								
 $a < 0$	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="padding: 5px;"><math>x</math></td> <td style="padding: 5px;">-</td> <td style="padding: 5px;"><math>\infty</math></td> <td style="padding: 5px;"><math>+\infty</math></td> </tr> <tr> <td style="padding: 5px;"><math>f(x)</math></td> <td style="padding: 5px;"></td> <td colspan="2" style="text-align: center; padding: 5px;">↘</td> </tr> </table>	$x$	-	$\infty$	$+\infty$	$f(x)$		↘		
$x$	-	$\infty$	$+\infty$							
$f(x)$		↘								
 $a > 0$	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="padding: 5px;"><math>x</math></td> <td style="padding: 5px;">-</td> <td style="padding: 5px;"><math>-\frac{b}{2a}</math></td> <td style="padding: 5px;"><math>+\infty</math></td> </tr> <tr> <td style="padding: 5px;"><math>f(x)</math></td> <td style="padding: 5px;"></td> <td style="text-align: center; padding: 5px;">↘↗</td> <td style="padding: 5px;">↗</td> </tr> </table> <p style="text-align: center;"><math>\Omega\left(-\frac{b}{2a}; f\left(-\frac{b}{2a}\right)\right)</math> شلمج رأسه (<math>Cf</math>)</p> <p style="text-align: center;"><math>x = -\frac{b}{2a}</math> محوره المستقيم ذو المعادلة :</p>	$x$	-	$-\frac{b}{2a}$	$+\infty$	$f(x)$		↘↗	↗	$f(x) = ax^2 + bx + c$ $a \neq 0$
$x$	-	$-\frac{b}{2a}$	$+\infty$							
$f(x)$		↘↗	↗							
 $a < 0$	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="padding: 5px;"><math>x</math></td> <td style="padding: 5px;">-</td> <td style="padding: 5px;"><math>-\frac{b}{2a}</math></td> <td style="padding: 5px;"><math>+\infty</math></td> </tr> <tr> <td style="padding: 5px;"><math>f(x)</math></td> <td style="padding: 5px;">↗</td> <td style="text-align: center; padding: 5px;">↗↘</td> <td style="padding: 5px;">↘</td> </tr> </table>	$x$	-	$-\frac{b}{2a}$	$+\infty$	$f(x)$	↗	↗↘	↘	
$x$	-	$-\frac{b}{2a}$	$+\infty$							
$f(x)$	↗	↗↘	↘							
 $ad - bc > 0$	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="padding: 5px;"><math>x</math></td> <td style="padding: 5px;">-</td> <td style="padding: 5px;"><math>-\frac{d}{c}</math></td> <td style="padding: 5px;"><math>+\infty</math></td> </tr> <tr> <td style="padding: 5px;"><math>f(x)</math></td> <td style="padding: 5px;">↗</td> <td style="text-align: center; padding: 5px;"> </td> <td style="padding: 5px;">↗</td> </tr> </table> <p style="text-align: center;"><math>\Omega\left(-\frac{d}{c}; \frac{a}{c}\right)</math> هدلول مركز تماطله (<math>Cf</math>)</p>	$x$	-	$-\frac{d}{c}$	$+\infty$	$f(x)$	↗		↗	$f(x) = \frac{ax+b}{cx+d}$ $ad - bc \neq 0$
$x$	-	$-\frac{d}{c}$	$+\infty$							
$f(x)$	↗		↗							
 $ad - bc < 0$	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="padding: 5px;"><math>x</math></td> <td style="padding: 5px;">-</td> <td style="padding: 5px;"><math>-\frac{d}{c}</math></td> <td style="padding: 5px;"><math>+\infty</math></td> </tr> <tr> <td style="padding: 5px;"><math>f(x)</math></td> <td style="padding: 5px;">↘</td> <td style="text-align: center; padding: 5px;"> </td> <td style="padding: 5px;">↘</td> </tr> </table>	$x$	-	$-\frac{d}{c}$	$+\infty$	$f(x)$	↘		↘	
$x$	-	$-\frac{d}{c}$	$+\infty$							
$f(x)$	↘		↘							

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