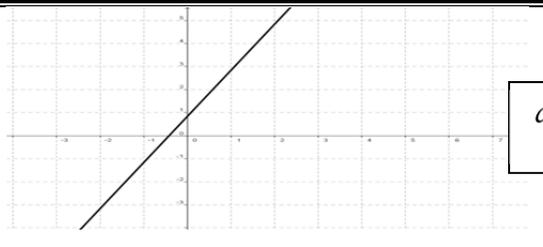
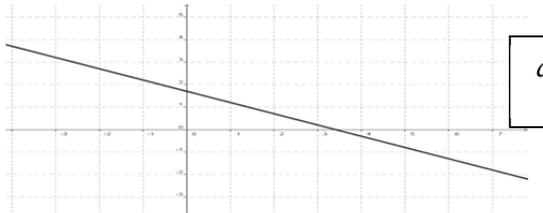
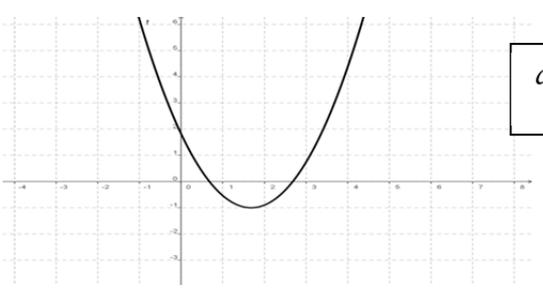
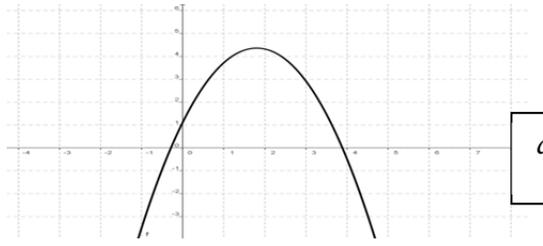
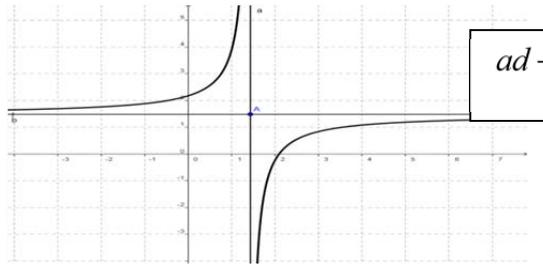
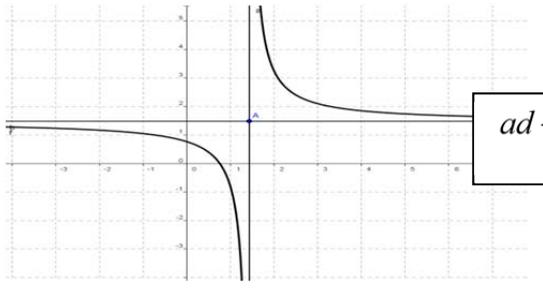


التمثيل المبياني	الخصائص	الدالة								
	$a > 0$ <table border="1" data-bbox="702 302 1212 448"> <tr> <td>x</td> <td>$-\infty$</td> <td>$+\infty$</td> </tr> <tr> <td>$f(x)$</td> <td colspan="2" style="text-align: center;">↗</td> </tr> </table> <p>$y = ax + b$ مستقيم معادلته (Cf)</p>	x	$-\infty$	$+\infty$	$f(x)$	↗		$f(x) = ax + b$ $a \neq 0$		
x	$-\infty$	$+\infty$								
$f(x)$	↗									
	$a < 0$ <table border="1" data-bbox="702 515 1212 660"> <tr> <td>x</td> <td>$-\infty$</td> <td>$+\infty$</td> </tr> <tr> <td>$f(x)$</td> <td colspan="2" style="text-align: center;">↘</td> </tr> </table>	x	$-\infty$	$+\infty$	$f(x)$	↘				
x	$-\infty$	$+\infty$								
$f(x)$	↘									
	$a > 0$ <table border="1" data-bbox="702 761 1212 952"> <tr> <td>x</td> <td>$-\infty$</td> <td>$-\frac{b}{2a}$</td> <td>$+\infty$</td> </tr> <tr> <td>$f(x)$</td> <td colspan="3" style="text-align: center;">↘ ↗</td> </tr> </table> <p>(Cf) شلجم رأسه $\Omega\left(-\frac{b}{2a}; f\left(-\frac{b}{2a}\right)\right)$ محوره المستقيم ذو المعادلة: $x = -\frac{b}{2a}$</p>	x	$-\infty$	$-\frac{b}{2a}$	$+\infty$	$f(x)$	↘ ↗			$f(x) = ax^2 + bx + c$ $a \neq 0$
x	$-\infty$	$-\frac{b}{2a}$	$+\infty$							
$f(x)$	↘ ↗									
	$a < 0$ <table border="1" data-bbox="702 1120 1212 1310"> <tr> <td>x</td> <td>$-\infty$</td> <td>$-\frac{b}{2a}$</td> <td>$+\infty$</td> </tr> <tr> <td>$f(x)$</td> <td colspan="3" style="text-align: center;">↗ ↘</td> </tr> </table>	x	$-\infty$	$-\frac{b}{2a}$	$+\infty$	$f(x)$	↗ ↘			
x	$-\infty$	$-\frac{b}{2a}$	$+\infty$							
$f(x)$	↗ ↘									
	$ad - bc > 0$ <table border="1" data-bbox="702 1422 1212 1601"> <tr> <td>x</td> <td>$-\infty$</td> <td>$-\frac{d}{c}$</td> <td>$+\infty$</td> </tr> <tr> <td>$f(x)$</td> <td colspan="3" style="text-align: center;">↗ ↗</td> </tr> </table> <p>(Cf) هددلول مركز تماثله: $\Omega\left(-\frac{d}{c}; \frac{a}{c}\right)$ مقاربه المستقيمان: $y = \frac{a}{c}$ و $x = -\frac{d}{c}$</p>	x	$-\infty$	$-\frac{d}{c}$	$+\infty$	$f(x)$	↗ ↗			$f(x) = \frac{ax + b}{cx + d}$ $ad - bc \neq 0$
x	$-\infty$	$-\frac{d}{c}$	$+\infty$							
$f(x)$	↗ ↗									
	$ad - bc < 0$ <table border="1" data-bbox="702 1758 1212 1948"> <tr> <td>x</td> <td>$-\infty$</td> <td>$-\frac{d}{c}$</td> <td>$+\infty$</td> </tr> <tr> <td>$f(x)$</td> <td colspan="3" style="text-align: center;">↘ ↘</td> </tr> </table>	x	$-\infty$	$-\frac{d}{c}$	$+\infty$	$f(x)$	↘ ↘			
x	$-\infty$	$-\frac{d}{c}$	$+\infty$							
$f(x)$	↘ ↘									