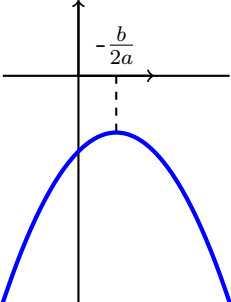
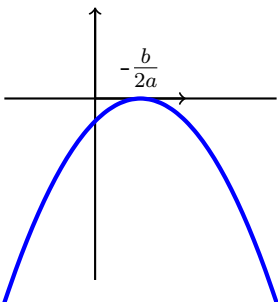
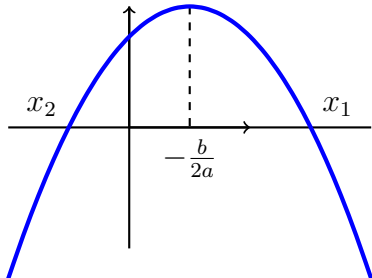
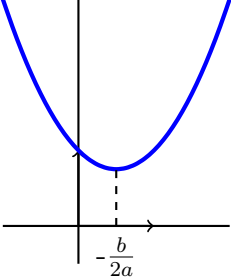
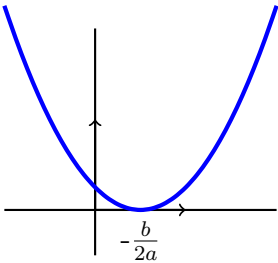
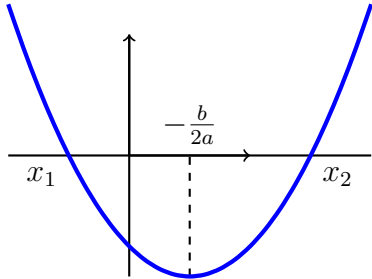


	$\Delta < 0$ Pas de racine Pas de factorisation	$\Delta = 0$ Une racine double $x_1 = -\frac{b}{2a}$ $a(x - x_1)^2$	$\Delta > 0$ Deux racines $x_1 = \frac{-b-\sqrt{\Delta}}{2a}$ et $x_2 = \frac{-b+\sqrt{\Delta}}{2a}$ $a(x - x_1)(x - x_2)$																																										
$a < 0$	 <table border="1" data-bbox="286 497 739 726"> <tr> <td><math>x</math></td> <td><math>-\infty</math></td> <td><math>-\frac{b}{2a}</math></td> <td><math>+\infty</math></td> </tr> <tr> <td><math>p(x)</math></td> <td colspan="3">-</td> </tr> <tr> <td><math>p</math></td> <td colspan="3">↔</td> </tr> </table>	$x$	$-\infty$	$-\frac{b}{2a}$	$+\infty$	$p(x)$	-			$p$	↔			 <table border="1" data-bbox="945 497 1397 726"> <tr> <td><math>x</math></td> <td><math>-\infty</math></td> <td><math>-\frac{b}{2a}</math></td> <td><math>+\infty</math></td> </tr> <tr> <td><math>p(x)</math></td> <td>-</td> <td>0</td> <td>-</td> </tr> <tr> <td><math>p</math></td> <td colspan="3">↔ 0 ↔</td> </tr> </table>	$x$	$-\infty$	$-\frac{b}{2a}$	$+\infty$	$p(x)$	-	0	-	$p$	↔ 0 ↔			 <table border="1" data-bbox="1601 497 2054 726"> <tr> <td><math>x</math></td> <td><math>-\infty</math></td> <td><math>x_2</math></td> <td><math>-\frac{b}{2a}</math></td> <td><math>x_1</math></td> <td><math>+\infty</math></td> </tr> <tr> <td><math>p(x)</math></td> <td>-</td> <td>0</td> <td>+</td> <td>0</td> <td>-</td> </tr> <tr> <td><math>p</math></td> <td colspan="5">↔</td> </tr> </table>	$x$	$-\infty$	$x_2$	$-\frac{b}{2a}$	$x_1$	$+\infty$	$p(x)$	-	0	+	0	-	$p$	↔				
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$a > 0$	 <table border="1" data-bbox="286 1104 739 1332"> <tr> <td><math>x</math></td> <td><math>-\infty</math></td> <td><math>-\frac{b}{2a}</math></td> <td><math>+\infty</math></td> </tr> <tr> <td><math>p(x)</math></td> <td colspan="3">+</td> </tr> <tr> <td><math>p</math></td> <td colspan="3">↔</td> </tr> </table>	$x$	$-\infty$	$-\frac{b}{2a}$	$+\infty$	$p(x)$	+			$p$	↔			 <table border="1" data-bbox="945 1104 1397 1332"> <tr> <td><math>x</math></td> <td><math>-\infty</math></td> <td><math>-\frac{b}{2a}</math></td> <td><math>+\infty</math></td> </tr> <tr> <td><math>p(x)</math></td> <td>+</td> <td>0</td> <td>+</td> </tr> <tr> <td><math>p</math></td> <td colspan="3">↔ 0 ↔</td> </tr> </table>	$x$	$-\infty$	$-\frac{b}{2a}$	$+\infty$	$p(x)$	+	0	+	$p$	↔ 0 ↔			 <table border="1" data-bbox="1601 1104 2054 1332"> <tr> <td><math>x</math></td> <td><math>-\infty</math></td> <td><math>x_1</math></td> <td><math>-\frac{b}{2a}</math></td> <td><math>x_2</math></td> <td><math>+\infty</math></td> </tr> <tr> <td><math>p(x)</math></td> <td>+</td> <td>0</td> <td>-</td> <td>0</td> <td>+</td> </tr> <tr> <td><math>p</math></td> <td colspan="5">↔</td> </tr> </table>	$x$	$-\infty$	$x_1$	$-\frac{b}{2a}$	$x_2$	$+\infty$	$p(x)$	+	0	-	0	+	$p$	↔				
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$$\Delta = b^2 - 4ac$$

$$c = f(0)$$

$$\alpha = -\frac{b}{2a}$$

$$\beta = f(\alpha)$$

$$\frac{x_1 + x_2}{2} = \alpha$$

$$x_1 \times x_2 = \frac{c}{a}$$