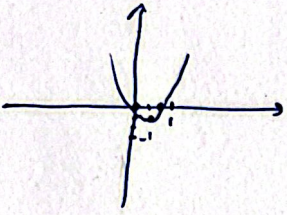
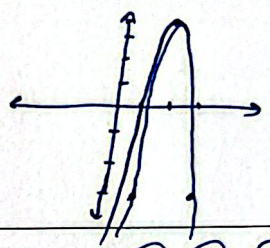
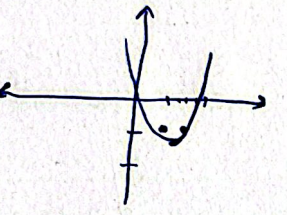
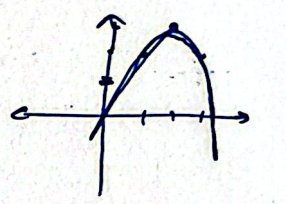


<p>الف) $x_3 = \frac{-b}{2a} = \frac{1}{2}$</p> <table border="1" style="display: inline-table; vertical-align: middle;"> <tr><td>x</td><td>y</td></tr> <tr><td>0</td><td>0</td></tr> <tr><td>$\frac{1}{2}$</td><td>$-\frac{1}{4}$</td></tr> <tr><td>1</td><td>0</td></tr> </table> 	x	y	0	0	$\frac{1}{2}$	$-\frac{1}{4}$	1	0	<p>ب) $x_3 = \frac{-b}{2a} = \frac{-2}{-4} = \frac{1}{2}$</p> <table border="1" style="display: inline-table; vertical-align: middle;"> <tr><td>x</td><td>y</td></tr> <tr><td>0</td><td>0</td></tr> <tr><td>$\frac{1}{2}$</td><td>$-\frac{1}{4}$</td></tr> <tr><td>1</td><td>0</td></tr> </table> 	x	y	0	0	$\frac{1}{2}$	$-\frac{1}{4}$	1	0	۱
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<p>$s = \alpha + \beta = \frac{-b}{a} = 1$ $p = \alpha\beta = \frac{c}{a} = -3$ $\frac{\sqrt{5}}{ a } = \alpha - \beta = \frac{\sqrt{1-4(-3)}}{1} = \sqrt{13}$</p>	<p>ب) $\alpha^2 + \beta^2 = s^2 - 2p = 1 - 2(-3) = 7$ ج) $\alpha^3 + \beta^3 = (\alpha + \beta)^3 - 3\alpha\beta(\alpha + \beta) = 1 - 3(-3)(1) = 10$</p>	۳																
<p>ان) $\frac{\alpha + \beta}{\alpha - \beta} = \frac{1}{\sqrt{13}} = \frac{\sqrt{13}}{13}$</p>	<p>د) $\alpha^3 - \beta^3 = (\alpha - \beta)^3 + 3\alpha\beta(\alpha + \beta) = (\sqrt{13})^3 + 3(-3)(1) = 13\sqrt{13} - 9$</p>																	
<p>$x - 2 = 0 \rightarrow x = 2$ $x = 2 \rightarrow (2)^2 - 2\alpha + \alpha = 0$ $4 - \alpha = 0$ $\alpha = 4$</p>		۴																
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