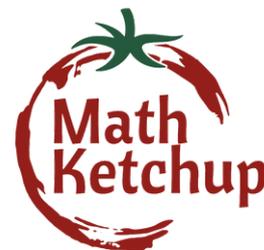


# Graphing Quadratic Equations

Level 1 - Graph quadratic equations given in vertex form

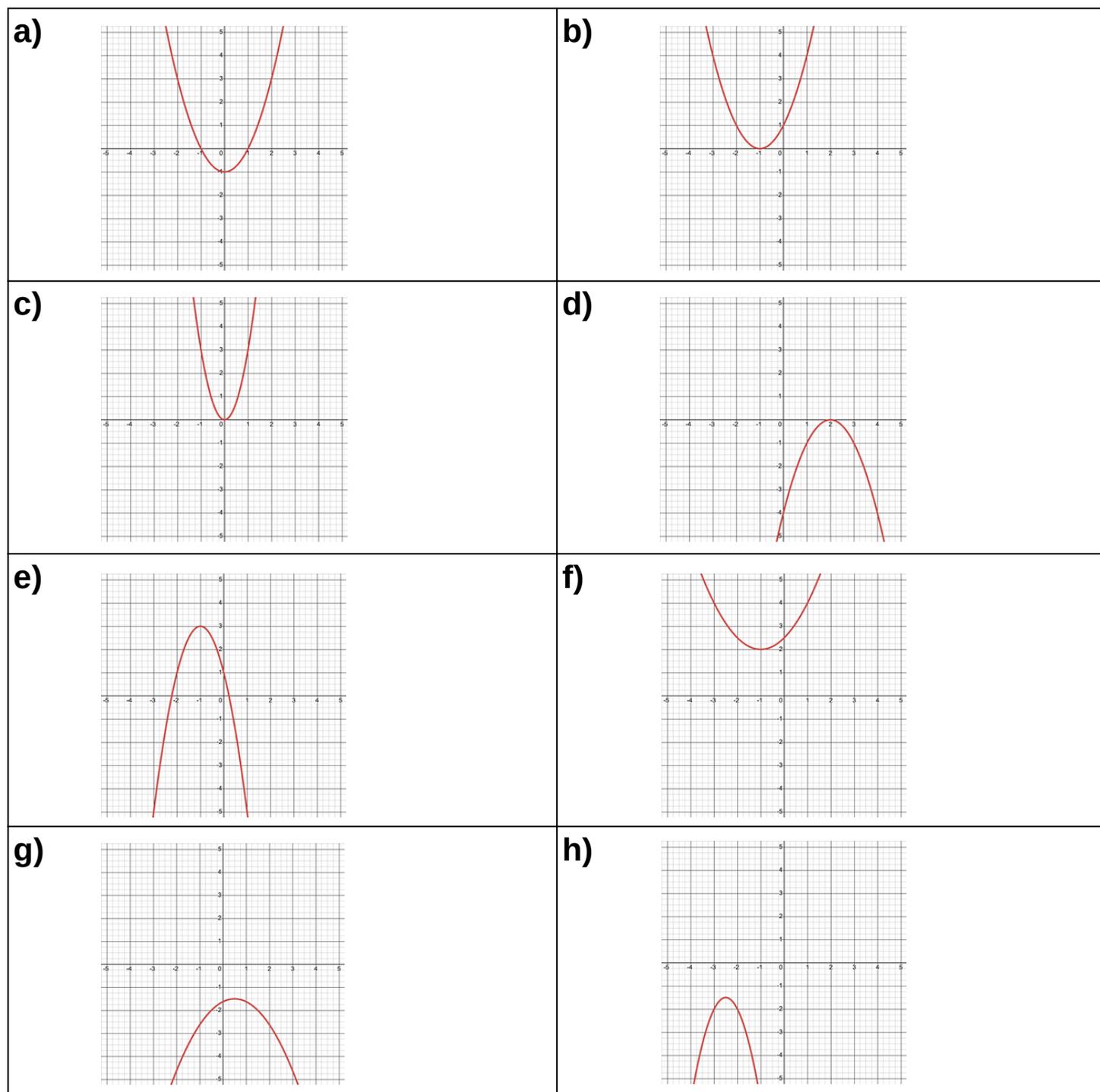
Level 2 - Create a quadratic equation from a graph

Level 3 - Convert from standard to vertex form and graph the quadratic equation



## Answers:

### Level 1

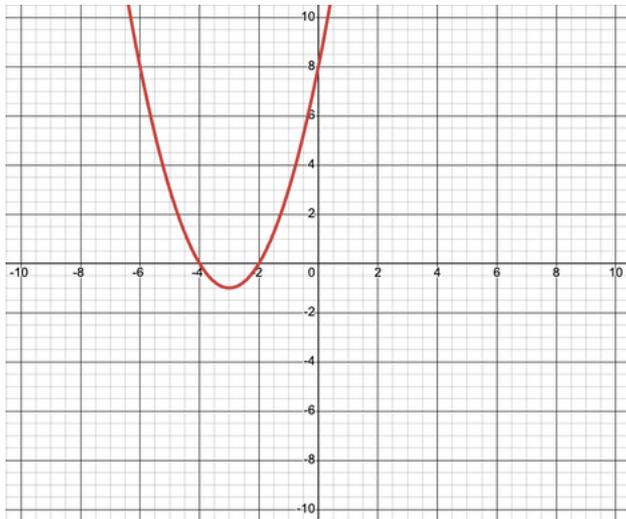


## Level 2

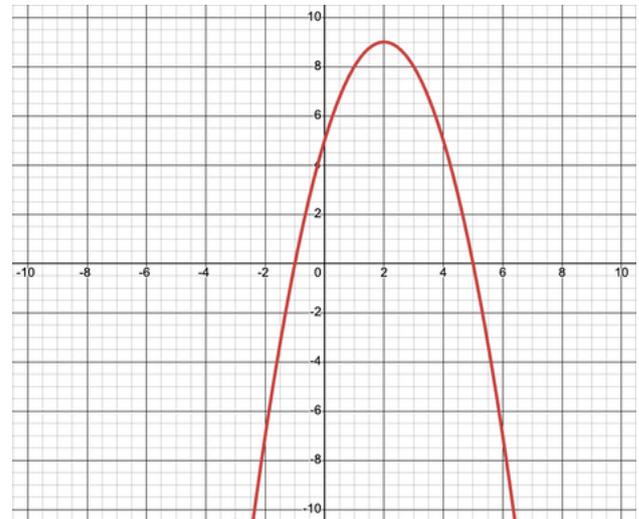
<b>a)</b> $y = x^2 - 4$	<b>b)</b> $y = (x - 1)^2$
<b>c)</b> $y = -(x + 1)^2 + 4$	<b>d)</b> $y = (x + 2)^2 - 1$
<b>e)</b> $y = -(x - 1)^2 + 4$	<b>f)</b> $y = 2(x + 2)^2 - 2$

## Level 3

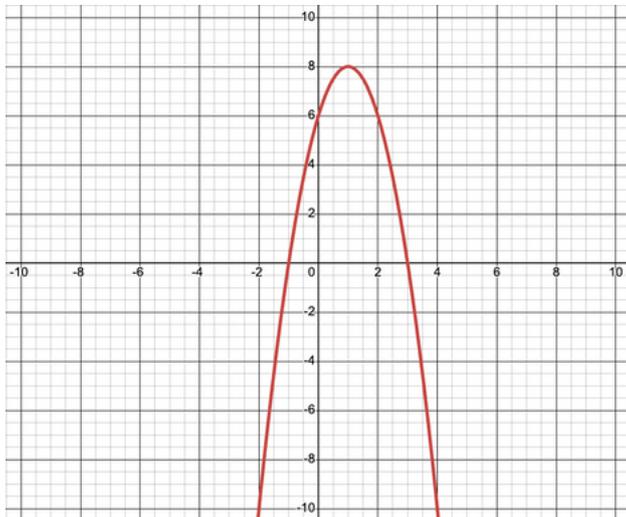
**a)**  $y = (x + 3)^2 - 1$



**b)**  $y = -(x - 2)^2 + 9$



**c)**  $y = -2(x - 1)^2 + 8$



**d)**  $y = \frac{1}{2}(x - 1)^2 - \frac{9}{2}$

