

Name _____

Date _____

Year Group _____

Solve the system of equations

1.
$$\begin{cases} x - y = 2 \\ -x + y^2 = 4 \end{cases}$$

Solve for the variable x in the linear equation

$$x - y = 2$$

Steps => $x = \underline{\hspace{1cm}} + 2$

Substitute the equation above into the parabolic equation

$$-x + y^2 = 4$$

Steps => $-(\underline{\hspace{1cm}} + \underline{\hspace{1cm}}) + y^2 = 4$

Steps => $\underline{\hspace{1cm}} \underline{\hspace{1cm}} \underline{\hspace{1cm}} + y^2 = 4$

Steps => $y^2 - \underline{\hspace{1cm}} - \underline{\hspace{1cm}} = 0$

Steps => $(y - \underline{\hspace{1cm}})(y + \underline{\hspace{1cm}}) = 0$

Steps => $y = \underline{\hspace{1cm}}$ or $y = \underline{\hspace{1cm}}$

Point 1 $(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$ Point 2 $(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

Drag the pieces to a make the graph that matches the system

Put the correct pieces on the left and the extra on the right

