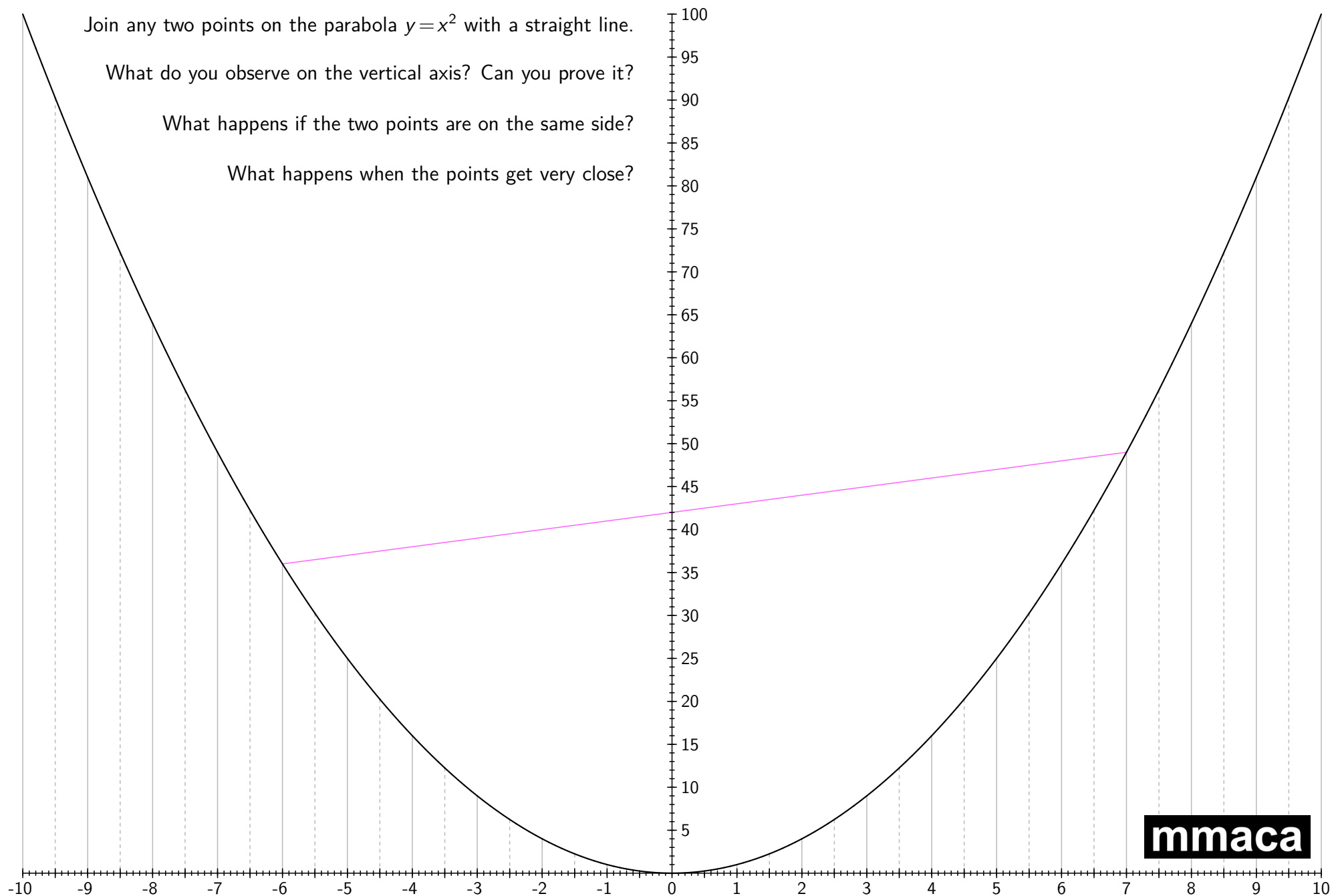


Join any two points on the parabola  $y=x^2$  with a straight line.

What do you observe on the vertical axis? Can you prove it?

What happens if the two points are on the same side?

What happens when the points get very close?



**mmaca**