

YOU & MATHS Find a quadratic that fits Find a quadratic polynomial $p(x)$ such that $p(2) = 0$.

From Ruffini's theorem we know that the polynomial can be written in the form $p(x) = (x - 2) \cdot q(x)$ and the degree of $q(x)$ has to be 1. So a suitable choice for $q(x)$ is for example $x - 1$. In this case $p(x)$ would be $p(x) = (x - 2) \cdot (x - 1) = x^2 - 3x + 2$.