A mean field description for the Majoined p approach to teaching and learning mathematics

•	What is	significant	about th	e points	where	the red	line	intersects	the	green	line?

• When the applied field *H* is equal to 0 at how many points does the red line intersect with the green line? What happens as the the inverse temperature is increased?

• What is the derivative of $\tanh [\beta (H + 2J\langle M \rangle)]$ with respect to $\langle M \rangle$ equal to when H = 0 and when $\beta = 2\frac{J}{k_BT}$? Explain why this is significant given your answers to the previous questions and the figure above.

A mean field description for the MathsNET model

• Describe how the curve changes when $H \neq 0$. How does the number of times the green line intercepts with the red line change as the strength of the field and the temperature are changed? Describe how the positions of these various intercepts changes with field strength?