

Given: $f(x) = 2x^2 + 12x + 8$

<p style="text-align: center;"><u>Mastery</u></p> <p>Find roots, y axis intercept, turning point</p> <ul style="list-style-type: none">• algebraically• with calculator <p>Show proof</p>	<p style="text-align: center;"><u>Interpersonal</u></p> <ul style="list-style-type: none">• What is the hardest part?• What do you think are the most common mistakes?• Write a warning label for someone solving this problem so they avoid these mistakes
<p style="text-align: center;"><u>Understanding</u></p> <ul style="list-style-type: none">• Explain why you can get the information you can from the equation (roots, y axis intercept, turning point)• Explain how calculators and algebra represent the same information	<p style="text-align: center;"><u>Self-Expressive</u></p> <ul style="list-style-type: none">• Sketch• Write a context for this equation.• Make an inequality out of this function. Write into context.