

Name: \_\_\_\_\_

Class: \_\_\_\_\_

Date: \_\_\_\_\_

**The cables of a suspension bridge will form a parabola and follow the equation  $y = -5x^2 + 10x + 60$  (treating the bridge deck as the x-axis). How far apart must the supports be if the cables if the cables are attached at height of 35 feet above the bridge deck?**

What solution(s) did you find?

Does it/do they makes sense in the context of the problem? What does it mean?

What type(s) of solution where you expecting? Think number systems.

Which method(s) for solving quadratic equations did you choose?

Why? Do you think this was the best method?

Show all of your work (neatly).