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Place-based Problem #2
 Parabolas

In Sitka people like to spend time on the ocean (boating, fishing, kayaking, sightseeing, traveling, hunting, etc.). Sitka Sound is teeming with wildlife. If you have spent any time on a boat in Sitka Sound you have probably come across porpoises or dolphins. Have you ever noticed the shape these creatures have when they leap out of the water?

Use Desmos to find an equation that would produce a graph representing a Pacific White-Sided Dolphin jumping out of the water assuming the dolphin is out of the water for 4 seconds and jumps to a height of 4 feet.

Sample of Work

$$y = -x^2 + 4x$$

