Square Perimeter Diagonal

NAME _____

Launch the Square-Perimeter-Diagonal applet from the Illuminations web site. Points will appear on the graph as you drag point C or D.

The horizontal axis represents the length of a side of the square. One graph shows **perimeter** as a function of side length. The other graph shows **diagonal length** as a function of side length.

To erase the graphs, click on the X in the lower right corner.

1. Which graph represents the relationship for the diagonal, and which graph represents the relationship for the perimeter?

2. Explain how you arrived at your conclusion.

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