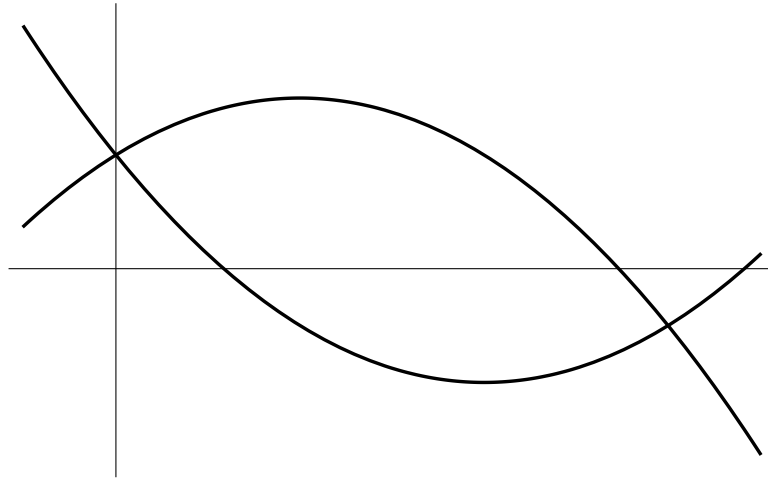


Name _____

1. (5 points) The functions $y = x^2 - 4x + 2$ and $y = 2 + 2x - x^2$ are plotted below. Find the area enclosed by these curves. Please simplify your answer – it should be an integer.



2. (5 points) Set up, but **DO NOT EVALUATE**, an integral that represents the area enclosed by $y = 10 - x^4$, the tangent line to this graph at the point $(-1, 9)$, and the x -axis. The relevant functions are plotted below.

