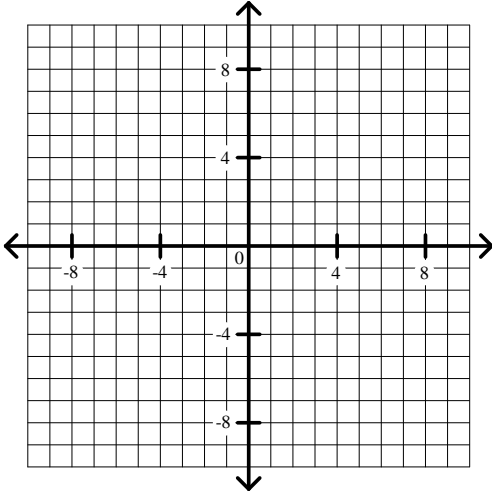


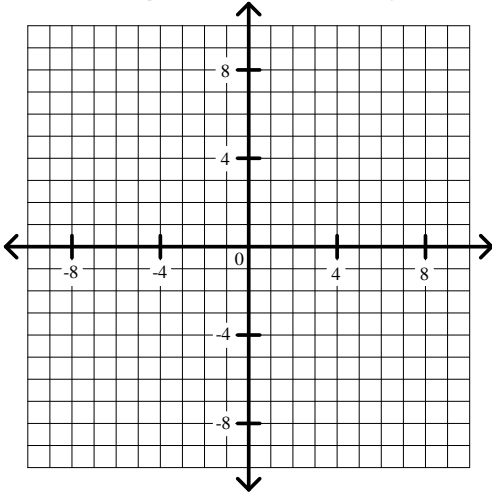
For each of the following problems you must

- a. sketch a graph of the region described, and
- b. use calculus to find the area of the region (exact value).

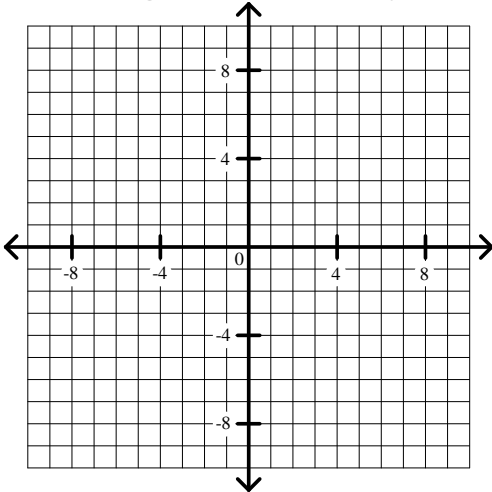
1. the region bounded by the curve $y = x^2$ and the line $y = x + 2$



2. the region bounded by the curve $y = 9 - x^2$ and the line $y = x + 3$



3. the region bounded by the curve $y = 4 - x^2$ and the curve $y = 8 - 2x^2$

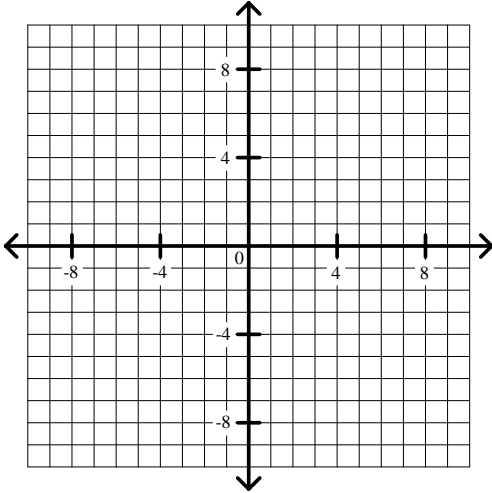


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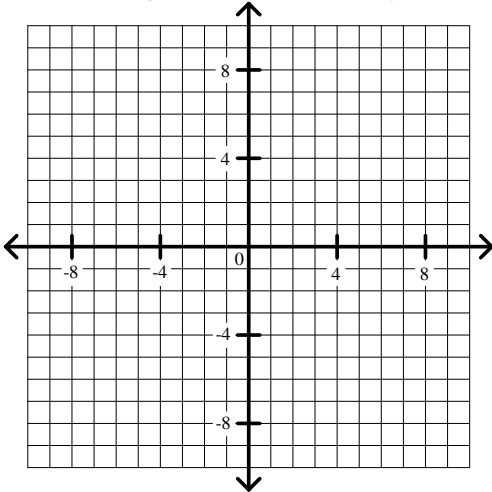
For each of the following problems you must

- sketch a graph of the region described, and
- use calculus to find the area of the region (exact value).

4. the region bounded by the curve $y = x^3$ and the line $y = 3x + 2$



5. the region bounded by the curve $y = x^2 - 4x + 3$ and the curve $y = -2x^2 + 5x + 3$



6. the region bounded by the curve $y = x^2 - 9$ and the curve $y = -2x^2 - 3x + 9$

