Area Practice:

Area with Polar Coordinates

- 1. Find the area inside the inner loop of $r = 3 8\cos\theta$.
- 2. Find the area inside the graph of $r = 7 + 3\cos\theta$ and to the left of the *y*-axis.

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- 3. Find the area that is inside $r = 3 + 3\sin\theta$ and outside r = 2.
- 4. Find the area that is inside r = 2 and outside $r = 3 + 3\sin\theta$.
- 5. Find the area that is inside $r = 4 2\cos\theta$ and outside $r = 6 + 2\cos\theta$.

6. Find the area that is inside both $r = 1 - \sin \theta$ and $r = 2 + \sin \theta$.