Area with Polar Curves

Estimate the area formed by the polar function $r = 1 - \cos \theta$.



Area with Polar Curves	
<i>Example 1:</i> Find the area formed by the polar function $r = 1 - \cos \theta$.	
Example 2: Setup the area inside the polar function r = 3 cos 2θ. Image: Then, use a graphing calculator to evaluate the area.	

Example 3:

Setup the area inside the polar function $r = 4 \sin 3\theta$. \blacksquare Then, use a graphing calculator to evaluate the area.



Example 4:

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Setup, but do not evaluate, an integral to find the area inside the polar curve $r = 2 + 4 \sin \theta$.

