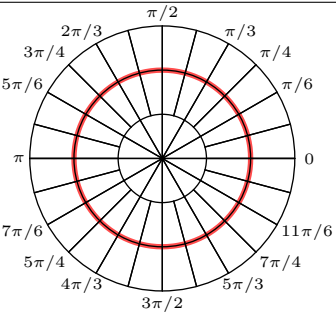
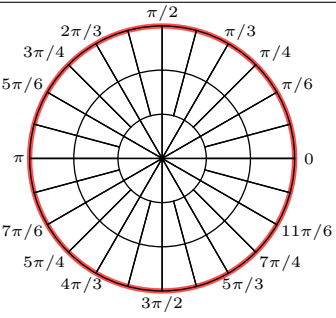
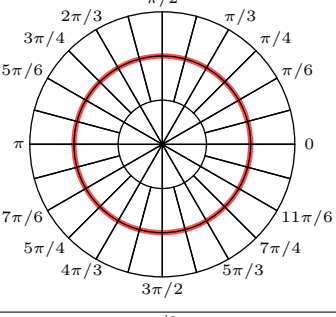
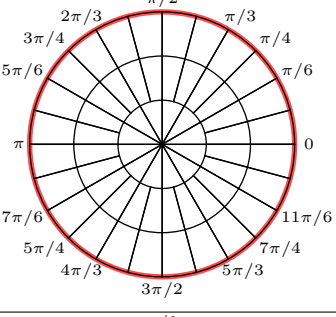
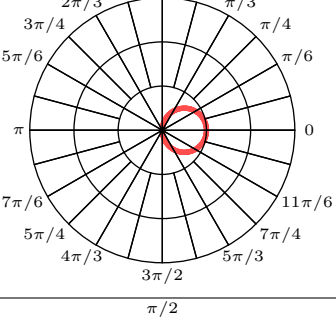
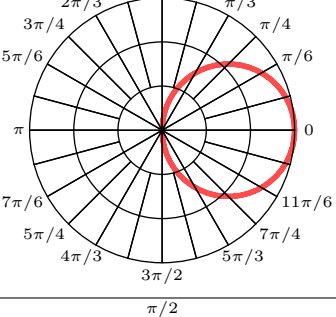
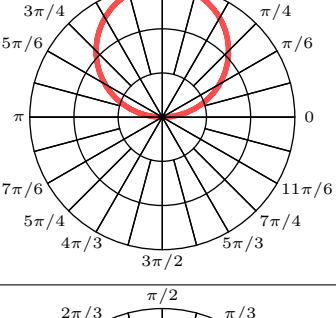
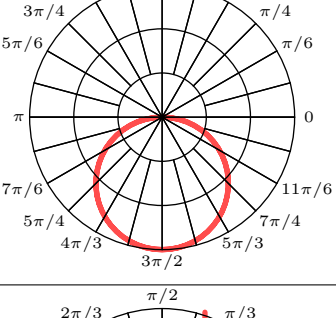
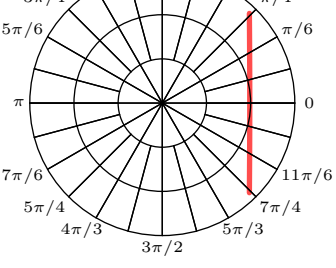
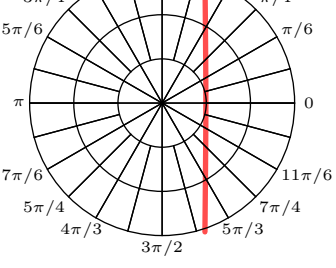
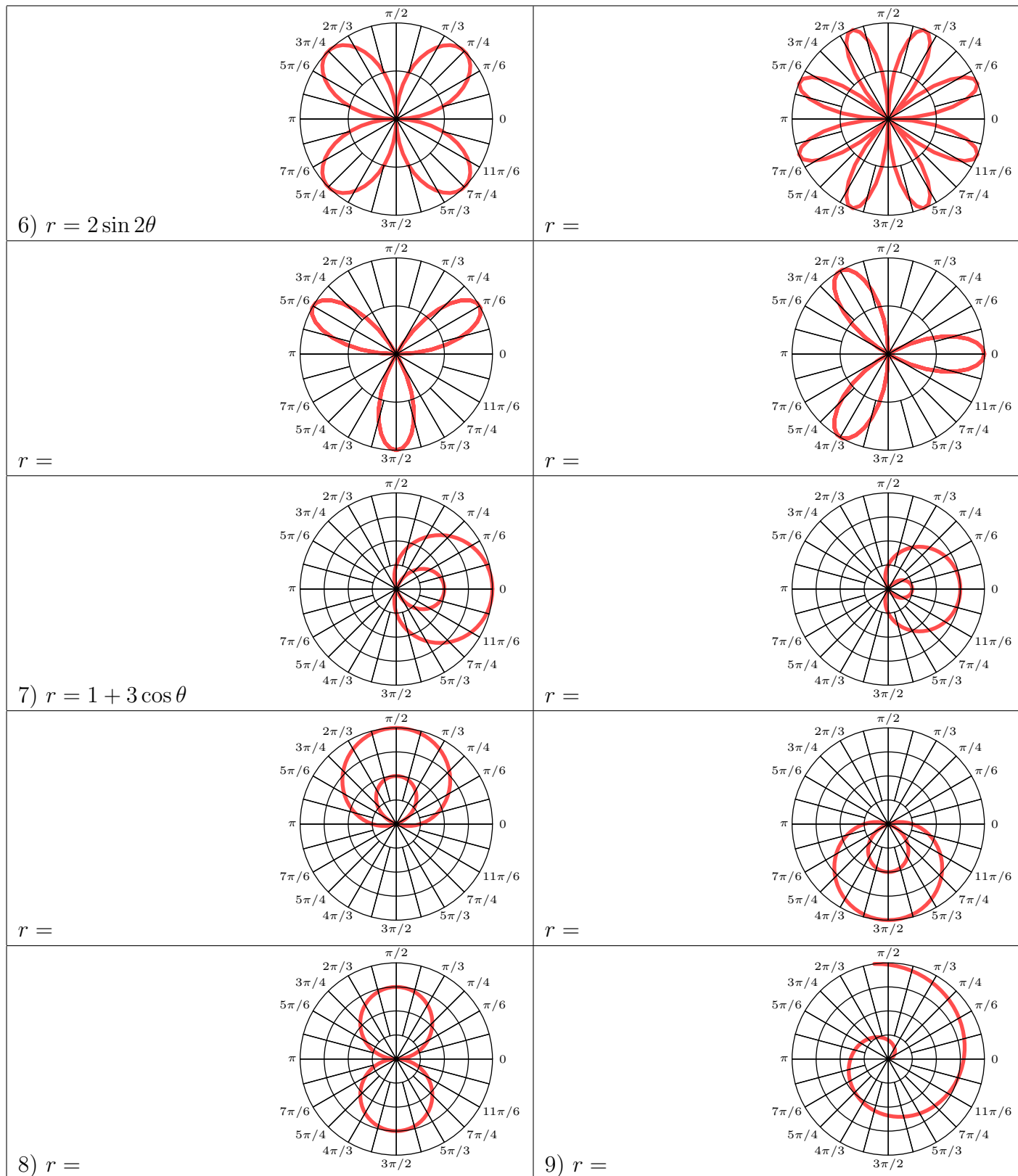


Desmos Polar Graph Challenge Plot the graphs below in Desmos. The left-hand graph's equation is given. Determine the right-hand graph's equation using logic and a bit of trial-and-error.

<p>1) $r = 2$</p> 	 <p>$r =$</p>
<p>2) $r = -2$</p> 	 <p>(different) $r =$</p>
<p>3) $r = \cos(\theta)$</p> 	 <p>$r =$</p>
<p>4) $r = 3 \sin(\theta)$</p> 	 <p>$r =$</p>
<p>5) $r = 2 \sec(\theta)$</p> 	 <p>$r =$</p>

In problems 6 and 7, one example is given followed by three challenges. Finally, 8 and 9 are challenges with no examples.



Closing task: Make your own equation with an interesting graph. Copy it onto the whiteboard and be prepared to explain it to the class. Don't just pick a random silly equation you can't explain! Write your equation below.