**Harmonic Form**





Where



 and 

⇒ , , 

**Harmonic Form Teaching Activity**

1. Draw . Make observations.
2. Experiment with other versions of  making further observations.
3. Realize that  can be written in the form and try to suggest reasons for these values (*R* ≈ 3.6, *α* ≈ 0.58).
4. Do the algebra. Equating both expressions and using double angle formulae:



Therefore:

⇒ ⇒

⇒ ⇒

 and 

1. Textbook or exam questions where students convert equations into harmonic form.
2. This question…

Rewrite in the form

1. Prove via graph transformations that your answers to part (a) and (b) are the same.