

# The Snack That Smiles Back

$$r(\theta) = 2.5\cos^3(\theta) - 4\cos^2(\sin^5(\theta))$$

$$r(\theta) = 5\cos(\theta - \tan(0.34)) + \sqrt{0.2 - 25 \sin^2(\theta - \tan(0.34))}$$

$$r(\theta) = 6\sin(\theta) - 6 \text{ where } \{ 9 < \theta < 9.5 \}$$

Demonstration: [Graph @ Desmos.com](#)