

51 For Saturn $r_1 = \frac{9.54(1 - 0.056^2)}{1 + 0.056 \cos \theta} = (9.54(1 - 0.056^2)) / (1 + 0.056 \cos(\theta))$

For Uranus $r_2 = \frac{19.2(1 - 0.047^2)}{1 + 0.047 \cos \theta} = (19.2(1 - 0.047^2)) / (1 + 0.047 \cos(\theta))$

Graph r_1 and r_2 for $0^\circ \leq \theta \leq 360^\circ$ in $[-30, 30, 10]$ by $[-20, 20, 10]$. See *Figure 51*.

$[-30, 30, 10]$ by $[-20, 20, 10]$

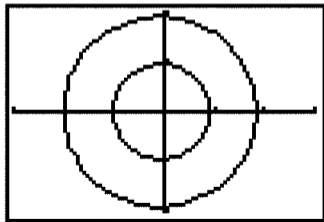


Figure 51