

The figure displays three periodic functions, likely sine waves, plotted over the interval $x \in [0, 2000]$. The x-axis is labeled 'x' and ranges from 0 to 2000 with major ticks every 250 units. The y-axis is unlabeled. The functions are represented by solid lines for $x \leq 1000$ and dotted lines for $x > 1000$. The green function has the highest frequency, completing approximately 16 full cycles over the interval. The blue function has a medium frequency, completing approximately 8 full cycles. The red function has the lowest frequency, completing approximately 4 full cycles. All three functions appear to be sinusoidal waves with a period of approximately 125 for the green function, 250 for the blue function, and 500 for the red function. The functions are plotted in a way that they overlap significantly, with the green function being the most prominent due to its higher frequency.

