Prelab 2

## Q1.

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| Figure : Computer generated plot of the function |

## Q2.

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| DCoff = 1V  ACRMS = Vpk/(3­1/2)  Vpk = 4V  ACRMS = 4V / 31/2 = 2.31V  DCRMS2 = ACRMS2 + DCoff2  = 2.312 + 12 = 6.34  DCRMS = 2.52 V |

## Q3.

### 3b.

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| fg\_sin()  Tells the function generator to output a sine wave using a given instrument, channel, frequency, peak to peak voltage, and DC offset voltage.  fg\_output()  This function turns a generator on or off given a channel, instrument, and state (meaning ON of OFF). |

### 3c.

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| SOUR1:FUNC SIN  Creates a sin function for source1  SOUR2:FREQ 1000  Sets Frequency of source 2 to 1000  SOUR1:VOLT 1.5  Sets voltage for source 1 to 1.5V  SOUC2:VOLT:OFFS 3  Sets the source 2 voltage offset to 3V  OUTP2 ON  Turns generator on for source 2 |