

MATH 133 – Calculus with Fundamentals 1
Quiz 2 – September 15, 2017

Your Name: _____

Directions

Do all work on this sheet. There are 30 possible points.

- 1) (15) In the space below, plot the piece-wise defined function

$$f(x) = \begin{cases} x + 3 & \text{if } -1 < x < 1 \\ x^2 - 4x + 2 & \text{if } 1 \leq x < 3. \end{cases}$$

Assume the domain is just the interval $(-1, 3)$ indicated.

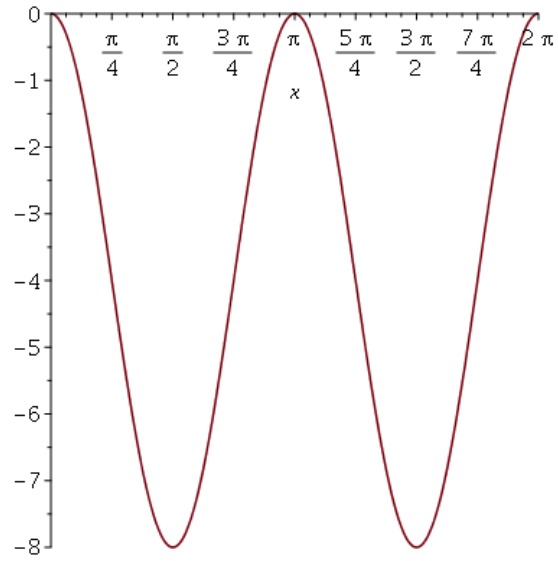


Figure 1: A sinusoidal function

2) (15) Find a formula for the sinusoidal function plotted in Figure 1 above.