- (i) Stretch it vertically by a factor of 2.5
- (ii) Compress it horizontally by a factor of $\frac{1}{3}$
- (iii) Shift it vertically, down by 1
- (iv) Shift it horizontally right by π .
 - **a.** [4 points] Call the function represented by the new graph g(x). What is a formula for this new function g(x)?

b. [2 points] What is an equation for the midline of g(x)?

c. [2 points] What is the amplitude of g(x)?

Amplitude: _____

d. [2 points] What is the period of g(x)?

Period: _____

g(*x*) = _____

y = _____