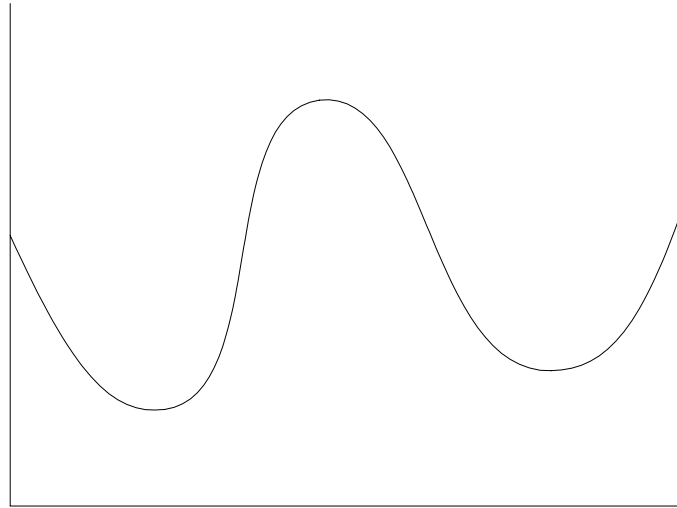


# Mathematics 122

## Quiz #19

Name: \_\_\_\_\_

- (1) In the following figure label the inflections points.



- (2) Find the inflection point of  $y = -x^3 + 6x^2 - 5x + 3$ .

Inflection point occurs where  $x =$  \_\_\_\_\_

- (3) Let  $C > 0$  be a constant and  $A = (3C - r)r^2$ . Find the value of  $r$  with  $0 \leq r \leq 2C$  that maximizes  $r$ .

Maximum occurs where  $r =$  \_\_\_\_\_