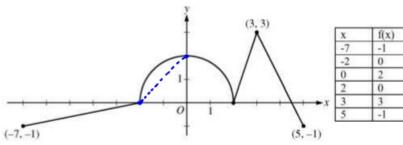
## Analysis of Functions AROC



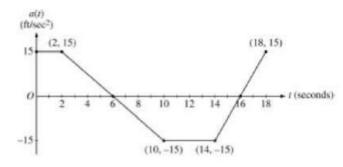
$$(-7,-1)$$
  $(-2,0)$ 

ARC =  $\frac{42-41}{2}$ 

a) Find the average rate of change between x = -7 and x = -2

$$\frac{-1-0}{-7-(-2)} = \frac{-1}{-5} \qquad \frac{0-(-1)}{-2-(-7)} = \frac{1}{5}$$

b) Find the average rate of change between x = -2 and x = 0



t	a(t)
0	15
2	15
6	0
10	-15
14	-15
16	0
18	15

a) Find the average rate of change between x = 0 and x = 10

$$(0,15) \quad (10,-15)$$

$$ARC = \frac{Y_2 - Y_1}{X_2 - X_1} = \frac{-15 - 15}{10 - 0}$$

$$= \frac{-30}{10} = -3$$

b) Find the average rate of change between x = 14 and x = 18

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$$\frac{15 - (-15)}{18 - 14} = \frac{30}{4} = \frac{15}{2}$$