

- (1) (e) When t=2 the object is moving LEFT RIGHT NEITHER
- 3. Use the given graph of f to evaluate these integrals (1 point each)

(a) 
$$\int_{0}^{10} f(x) dx =$$
 (b)  $\int_{0}^{5} |f(x)| dx =$  (c)  $\int_{0}^{2} 3f(x) dx =$  (d)  $\int_{0}^{5} 1 + f(x) dx =$  (e)  $\int_{0}^{5} 1 + f(x) dx =$ 



4. Think "area" to evaluate these integrals: (2 points each)

(a) 
$$\int_{0}^{8} 5-x \, dx =$$
 \_\_\_\_ (b)  $\int_{0}^{8} |5-x| \, dx =$  \_\_\_\_ (c)  $\int_{1.3}^{3.4} INT(x) \, dx =$  \_\_\_\_

5. Define: 
$$\int_{a}^{b} f(x) dx = \lim_{mesh \to 0} \left\{ \right\} (1)$$