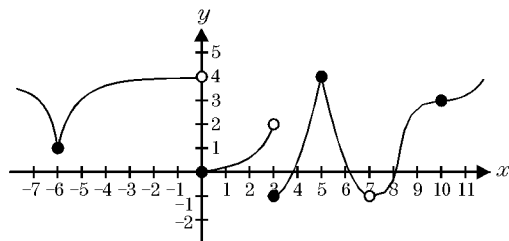


AP Calculus  
Warm Up Day 16 Analytic Limits

Name \_\_\_\_\_

Period \_\_\_\_\_

1. This figure shows the graph of  $f$ . Use this figure to answer the following question(s).



$\lim_{x \rightarrow 7^-} f$  is

- a) 1                      b) 2                      c) -1                      d) 4                      e) 0

2.  $\lim_{x \rightarrow 9} \frac{\sqrt{x} - 7}{x - 49} =$

- a) 0                      b)  $-\frac{1}{7}$                       c)  $\frac{1}{10}$                       d)  $\frac{1}{3}$                       e) undefined

3.  $\lim_{x \rightarrow 2} \frac{\frac{1}{x} - \frac{1}{2}}{x - 2} =$

- a) 0                      b)  $\frac{1}{2}$                       c)  $\frac{1}{4}$                       d)  $\frac{1}{8}$                       e)  $-\frac{1}{4}$

4. If  $\lim_{x \rightarrow 0} \frac{\sqrt{Ax + B} - 5}{x} = 2$ , then what are the values of  $A$  and  $B$ ?

1.  
Answer:        c  
CodePath:    EAS.APC.C.A.10
2.  
Answer:        c  
CodePath:    EAS.APC.C.B.26
3.  
Answer:        e  
CodePath:    EAS.APC.C.B.24
4.  
Answer:         $A = 20, B = 25$   
CodePath:    EAS.APC.C.B.40