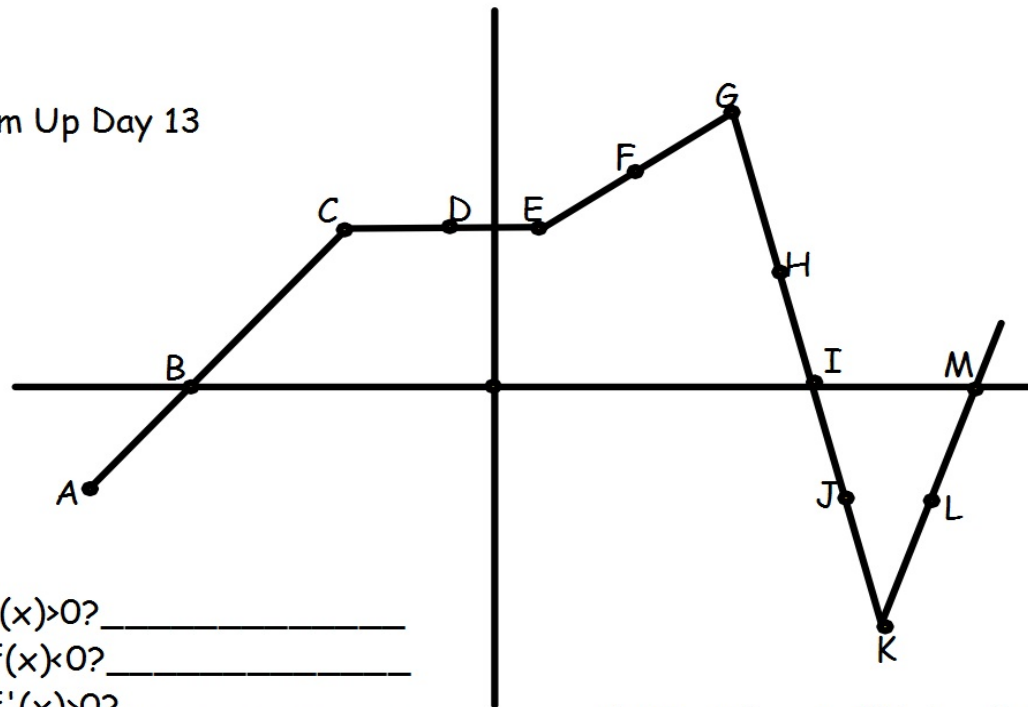


Warm Up Day 13



1. When is  $f(x) > 0$ ? \_\_\_\_\_
2. When is  $f(x) < 0$ ? \_\_\_\_\_
3. When is  $f'(x) > 0$ ? \_\_\_\_\_
4. When is  $f'(x) < 0$ ? \_\_\_\_\_
5. When is  $f(x) = 0$ ? \_\_\_\_\_
- \*6. When is  $f'(x) = 0$ ? \_\_\_\_\_

\* 12. When is  $f'(x)$  undefined?  
 (It is neither moving up nor  
 down? You can't tell which way it  
 is going.)

7. Identify when  $f(x) > 0$  but  $f'(x) < 0$ . \_\_\_\_\_
8. Identify when  $f(x) < 0$  but  $f'(x) > 0$ . \_\_\_\_\_
9. Identify when  $f(x) > 0$  but  $f'(x) > 0$ . \_\_\_\_\_
10. Identify when  $f(x) < 0$  but  $f'(x) < 0$ . \_\_\_\_\_
11. Identify when  $f(x) > 0$  but  $f'(x) = 0$ . \_\_\_\_\_