

AP Calculus  
Warm Up Day 32

Name \_\_\_\_\_

Period \_\_\_\_\_

1.  $\frac{d^5(x^5)}{dx^5} =$

a) 120

b)  $24x$

c)  $5x^4$

d)  $120(x^5)$

e)  $5x^4 + 4x^3 + 3x^2 + x$

2. The functions  $f$  and  $g$  are differentiable and have the values shown in the table.

If  $A = f + g$  then  $A'(2) =$

a)  $-2$

b) 3

c) 4

d)  $-4$

e) 5

$x$	$f$	$f'$	$g$	$g'$
0	5	1	$-7$	$\frac{1}{4}$
2	8	3	$-5$	1
4	14	9	$-3$	4
6	26	27	$-1$	16

3. The functions  $f$  and  $g$  are differentiable and have the values shown in the table.

If  $A = 3f + 2g$  then  $A'(4) =$

a) 44

b) 5

c) 0

d) 36

e) 35

$x$	$f$	$f'$	$g$	$g'$
0	5	1	$-7$	$\frac{1}{4}$
2	8	3	$-5$	1
4	14	9	$-3$	4
6	26	27	$-1$	16

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4. The functions  $f$  and  $g$  are differentiable and have the values shown in the table.

If  $A = f \cdot g$  then  $A'(2) =$

- a) 0            b) 53            c)  $-7$             d) 3            e) 19

$x$	$f$	$f'$	$g$	$g'$
0	5	1	$-7$	$\frac{1}{4}$
2	8	3	$-5$	1
4	14	9	$-3$	4
6	26	27	$-1$	16

5. The functions  $f$  and  $g$  have the values shown in the table and are differentiable.

If  $A = \left(\frac{f}{g}\right)$  then  $A'(2) =$

- a)  $\frac{23}{25}$             b)  $-\frac{23}{4}$             c)  $\frac{23}{4}$             d)  $-7$             e)  $-\frac{23}{25}$

$x$	$f$	$f'$	$g$	$g'$
0	5	1	$-7$	$\frac{1}{4}$
2	8	3	$-5$	1
4	14	9	$-3$	4
6	26	27	$-1$	16

1.  
Answer:        a  
CodePath:    EAS.APC.E.D.2
2.  
Answer:        c  
CodePath:    EAS.APC.D.B.1
3.  
Answer:        e  
CodePath:    EAS.APC.D.B.5
4.  
Answer:        c  
CodePath:    EAS.APC.D.B.10
5.  
Answer:        e  
CodePath:    EAS.APC.D.B.19