

AP Calculus  
Warm Up Day 6

Name \_\_\_\_\_

Date \_\_\_\_\_

1. If  $27^{\frac{x}{3}} = 9$ , then  $2x^3 =$

a) 4

b) 8

c) 16

d) 18

e) 24

2. Solve:  $\frac{2}{z+2} + \frac{13}{z^2-4} = \frac{z}{z-2}$

a) 3 or -3

b) 2 or 3

c) -2 or 2

d) 3 or -4

e) -3 or 4

$$g(x) = kf(x) + 4$$

3. The quadratic function  $g$  above is defined in terms of another function  $f(x) = x^2 - 3x + 4$  where  $k$  is a constant. If  $g(2) = 6$ , what does  $k$  equal?

a) -2

b) -1

c) 1

d) 2

e) 3

4. If  $\frac{2a+3b}{a-2b} = \frac{2}{3}$ , what is the value of  $\frac{a}{b}$ ?

a) 13

b)  $-\frac{4}{13}$

c)  $\frac{4}{13}$

d)  $\frac{13}{4}$

e)  $-\frac{13}{4}$

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1.  
Answer:        c  
CodePath:    EAS.SAT.F.D.58
2.  
Answer:        a  
CodePath:    EAS.SAT.F.B.43
3.  
Answer:        c  
CodePath:    EAS.SAT.G.F.25
4.  
Answer:        e  
CodePath:    EAS.SAT.F.B.2