

# Trig Review Quiz 26

Name: \_\_\_\_\_

\_\_\_\_\_1.  $a - 2\sqrt{a^2 + 8a - 20}$   
 A.  $a + 10$                       B.  $a - 10$                       C.  $a + 10 + \frac{2}{a-2}$                       D. None of the above

\_\_\_\_\_2. If  $f(n) = 2n - 5$  and  $g(n) = 4n - 1$ , what is  $f(g(n))$ ?  
 A.  $8n - 7$                       B.  $8n - 6$                       C.  $8n - 21$                       D.  $8n - 19$

\_\_\_\_\_3. What is the domain of  $f(x) = x^2 - 16$ ?  
 A.  $x = 4$                       B.  $x > 4$                       C.  $x < 4$                       D.  $\mathbb{R}$

\_\_\_\_\_4. What is the slope of the line tangent to the graph of  $f(x) = 2x^3 + x^2$  at the point  $(2, 20)$ ?  
 A. 22                      B. 24                      C. 28                      D. 32

\_\_\_\_\_5. How many different ways can a 10 question True/False quiz be answered?  
 A. 20                      B. 512                      C. 1024                      D. 2156

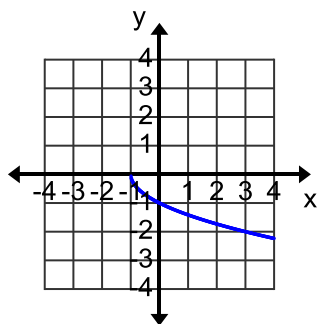
\_\_\_\_\_6. What is the slope of the line between the point  $(2, 3n)$  and  $(0, 3n - 8)$ ?  
 A. -8                      B. 4                      C. 8                      D. -4

\_\_\_\_\_7. Give a third point that must be on a parabola that has a vertex  $(-2, 7)$  and point  $(-3, 10)$ ?  
 A.  $(-1, 7)$                       B.  $(-1, 10)$                       C.  $(-4, 7)$                       D.  $(-4, 10)$

\_\_\_\_\_8. What is the horizontal asymptote of  $y = \frac{x+5}{x^2+3x+2}$ ?  
 A. none exists                      B.  $y = 0$                       C.  $y = 1$                       D.  $y = x + 1$

\_\_\_\_\_9. Evaluate  $\sum_{n=-1}^1 n^2 - 1$   
 A. -2                      B. -1                      C. 0                      D. -3

\_\_\_\_\_10. What equation is graphed below?



A.  $-\sqrt{x} + 1$                       B.  $-\sqrt{x-1}$                       C.  $-\sqrt{x} - 1$                       D.  $-\sqrt{x+1}$