

# Trig Review Quiz 0-7 A

- \_\_\_\_\_1. Perform the following division  $n-2 \overline{)n^2+3n-1}$
- A.  $n+5+\frac{-11}{n-2}$       B.  $n+5+\frac{9}{n-2}$       C.  $n+1+\frac{1}{n-2}$       D.  $n+1+\frac{-3}{n-2}$
- \_\_\_\_\_2. What is the slope of the line tangent to the graph of  $f(x) = 4x^3 - 2x^2 + 6$  at the point (2, 30)?
- A. 24      B. 36      C. 40      D. 64
- \_\_\_\_\_3. What is the value of y in  $\begin{cases} 2x-5y=32 \\ 3x+2y=10 \end{cases}$
- A.  $y = -3$       B.  $y = -1$       C.  $y = -4$       D. None of the above
- \_\_\_\_\_4. Simplify  $\frac{n^2+4n+3}{n^2+7n+12}$
- A.  $\frac{n+3}{n+4}$       B.  $\frac{1}{n+4}$       C.  $\frac{1}{3n+4}$       D.  $\frac{n+1}{n+4}$
- \_\_\_\_\_5. Simplify  $2(2n-4) - (6n-2)$
- A.  $-2n-10$       B.  $-2n-6$       C.  $2n-10$       D. None of the above
- \_\_\_\_\_6. (1, 1) is a critical point on  $f(x) = 2x^3 - 3x^2 + 2$ . What is it?
- A. Relative minimum      B. Relative maximum      C. Point of Inflection
- \_\_\_\_\_7. What is the midpoint of (1, 3n) and (7, n + 6)
- A. (4, 2n)      B. (4, 2n + 3)      C. (4, n + 3)      D. None of the above
- \_\_\_\_\_8. What is the domain of  $f(x) = \sqrt{2x-4}$ ?
- A.  $x \neq 2$       B.  $x > 2$       C.  $x \geq 2$       D.  $x < 2$
- \_\_\_\_\_9. Which of the following is the Law of Cosines?
- A.  $c^2 = a^2 + b^2 + 2ab \cos \theta$       B.  $c^2 = a^2 + b^2 - 2ab \cos \theta$   
C.  $c = 2a + 2b - 2ab \cos \theta$       D.  $c = a^2 + b^2 + 2ab \cos \theta$
- \_\_\_\_\_10.  $|x-1| > 5$
- A.  $x > 6$  or  $x < -4$       B.  $-4 < x < 6$   
C.  $x > -4$  or  $x < 6$       D.  $-4 > x > 6$