

Trig Review Quiz 0-8 B

- _____ 1. When $\cos \theta = \frac{8}{17}$ and the terminal side of θ is in the 1st quadrant, what is $\tan \theta$
- A. $\frac{15}{7}$ B. $\frac{15}{8}$ C. $\frac{8}{17}$ D. $\frac{17}{7}$
- _____ 2. In which quadrant is $-\frac{7\pi}{3}$?
- A. I B. II C. III D. IV
- _____ 3. Evaluate $\sum_{n=-1}^2 2n$
- A. 0 B. 2 C. 4 D. 8
- _____ 4. What is the domain of $f(x) = \sqrt{2x-12}$
- A. $\mathbb{R} : x \neq 6$ B. $\mathbb{R} : x > 6$ C. $\mathbb{R} : x < 6$ D. $\mathbb{R} : x \geq 6$
- _____ 5. Simplify $2(2n - 4) - (6n - 2)$
- A. $-2n - 10$ B. $-2n - 6$ C. $2n - 10$ D. None of the above
- _____ 6. Simplify $(a^4 n^3 x^6)(a^2 n^3 x^6)$
- A. $a^8 n^6 x^{12}$ B. $a^6 n^9 x^{12}$ C. $a^6 n^6 x^{36}$ D. $a^6 n^6 x^{12}$
- _____ 7. On a unit circle what point is associated with $\frac{\pi}{3}$?
- A. $\left(\frac{\sqrt{3}}{2}, \frac{1}{2}\right)$ B. $\left(\frac{1}{2}, \frac{\sqrt{3}}{2}\right)$ C. $\left(\frac{\sqrt{2}}{2}, \frac{\sqrt{2}}{2}\right)$ D. (0, 1)
- _____ 8. Factor $8n^3 + 27y^3$
- A. $(2n + 3y)(4n^2 + 6ny + 9y^2)$ B. $(2n + 3y)(4n^2 - 6ny + 9y^2)$
C. $(2n - 3y)(4n^2 + 6ny + 9y^2)$ D. $(2n + 3y)(4n^2 - 6ny - 9y^2)$
- _____ 9. From the 40 people in my room, I must pick a President, Vice-President, and Secretary. How many different ways can this be done?
- A. 4940 B. 9880 C. 59,280 D. 74,860
- _____ 10. A triangle has side lengths of 4, 6, and 9. Which formula would give you the area?
- A. Law of Cosines B. Law of Sines C. Hero's Formula D. Discriminant Formula