

Trig Review Quiz 0-8 A

- _____1. Simplify $(x + 2)(x + 2)(x + 2)$
A. $x^3 + 8$ B. $x^3 + 6x^2 + 4x + 12$
C. $x^3 + 6x^2 + 12x + 8$ D. $x^3 + 8x^2 + 12x + 8$
- _____2. What is the slope of the line tangent to the graph of $f(x) = x^3 - x^2 + x$ at the point $(1, 1)$?
A. 0 B. 1 C. 2 D. 6
- _____3. What is $\frac{\pi}{5}$ radians in degree measurement?
A. 108° B. 36° C. 24° D. 98°
- _____4. There are 20 people in a classroom. I must pick 4 of them to go with me to the movies. How many different ways could I chose the 4 students?
A. 120 B. 4845 C. 9020 D. 116,280
- _____5. What does $[6, \infty)$ mean?
A. $y > 6$ B. $y < 6$ C. $y \geq 6$ D. $y \leq 6$
- _____6. Simplify $\sqrt[3]{x^4 y^{10}}$
A. $xy^4 \sqrt[3]{xy}$ B. $xy^3 \sqrt[3]{xy^2}$ C. $xy^3 \sqrt[3]{xy}$ D. $xy \sqrt[3]{y}$
- _____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. 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. $n + 1 + \frac{-3}{n - 2}$
- _____9. Which is the equation that is parallel to $y = 5x - 2$ and goes through $(1, 1)$?
A. $5x - y = 4$ B. $5x - 2y = 3$ C. $5x + y = 6$ D. $-5x - y = -6$
- _____10. What is the slope from $(n, 6)$ to $(n + 2, 7)$?
A. 1 B. $\frac{1}{2}$ C. 0 D. 2