

Trig Review Quiz 0-4 B

- _____1. Simplify $\sqrt{160}$
A. 40 B. $10\sqrt{4}$ C. $2\sqrt{40}$ D. $4\sqrt{10}$
- _____2. **Solve** by factoring: $2x^2 + 19x + 9 = 0$
A. $x = 9$ or $x = \frac{1}{2}$ B. $x = 9$ or $x = -\frac{1}{2}$
C. $x = -9$ or $x = \frac{1}{2}$ D. $x = -9$ or $x = -\frac{1}{2}$
- _____3. $\sum_{n=-1}^2 (2n-1) =$
A. 0 B. -1 C. -3 D. 3
- _____4. From the 100 students in school, we must elect a President and a Vice-President. How many different ways could that be done?
A. 9900 B. 100 C. 4950 D. 63,296
- _____5. Pizza Boy offers a large 3 topping pizza for \$13.99. If they have 20 toppings from which you can choose, how many different possibilities can you make assuming you choose 3 different toppings?
A. 1140 B. 6840 C. 57 D. 20
- _____6. What is the distance from $(-2, 3)$ to $(2, 5)$?
A. $\sqrt{20}$ B. $\sqrt{6}$ C. $\sqrt{28}$ D. 2
- _____7. What inequality represents $(6, \infty)$?
A. $n > 6$ B. $n < 6$ C. $n \geq 6$ D. $n \leq 6$
- _____8. What is the domain of $f(x) = \sqrt{5x-10}$?
A. $x > 2$ B. $x \neq 2$ C. $x \leq 2$ D. \mathbb{R}
- _____9. NO CALCULATOR $\begin{bmatrix} 2 & 3 \\ 2 & 4 \end{bmatrix} \cdot \begin{bmatrix} 2 & 1 \\ 1 & 3 \end{bmatrix} =$
A. $\begin{bmatrix} 7 & 11 \\ 8 & 14 \end{bmatrix}$ B. $\begin{bmatrix} 4 & 3 \\ 2 & 12 \end{bmatrix}$ C. $\begin{bmatrix} 14 & 11 \\ 8 & 7 \end{bmatrix}$ D. $\begin{bmatrix} 6 & 12 \\ 4 & 7 \end{bmatrix}$
- _____10. Solve the system $\begin{cases} 3n + 2b = 0 \\ 2n + 5b = -11 \end{cases}$ and give the value for n.