

Trig Review Quiz 0-7 C

_____ 1. Perform the following division $n+4 \overline{)n^2+5n+2}$

A. $n+9+\frac{-34}{n+4}$ B. $n+1+\frac{-2}{n+4}$ C. $n+1+\frac{6}{n+4}$ D. $n+9+\frac{38}{n+4}$

- _____ 2. Which set of points would be a function?
- A. (2, 6), (3, 4), (2, 10) B. (1, 1), (2, 2) (1, 3)
 C. (1, 9), (2, 9), (5, 9) D. None are functions

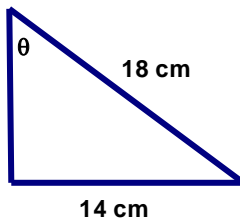
_____ 3. If $f(x) = 3x - 10$ and $g(x) = 2x + 1$, what is $f(g(x))$?

A. $6x - 19$ B. $6x - 13$ C. $6x + 13$ D. $6x - 7$

_____ 4. What is the domain of $f(x) = x^3 - 8$?

A. $x \neq 2$ B. \mathbb{R} C. $x \geq 2$ D. $x > 2$

_____ 5. What is the closest value of θ in the right triangle below?



- A. 38° B. 39° C. 48° D. 51°

_____ 6. What equation is graphed in figure 1 on the back?

A. $y = |x-1| - 2$ B. $y = |x+1| + 2$ C. $y = |x-1| + 2$ D. $y = |x-1|^2 + 2$

_____ 7. What equation is graphed in figure 2 on the back?

A. $y = \pm\sqrt{x+1} + 2$ B. $y = \sqrt{x+1} + 2$ C. $y = \pm\sqrt{x-1} - 2$ D. $y = \sqrt{x-1} + 2$

_____ 8. What equation is graphed in figure 3 on the back?

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

_____ 9. What is the horizontal asymptote of $y = \frac{2x^3 + 5}{3x^2 + 1}$?

A. $y = 0$ B. $y = \frac{2}{3}$ C. $y = 1$ D. No horizontal asymptote

_____ 10. What is the vertical asymptote of $y = \frac{2x^3 + 5}{x + 4}$?

A. $x = 4$ B. $x = -4$ C. $x = 2$ D. No vertical asymptote

Figure 1

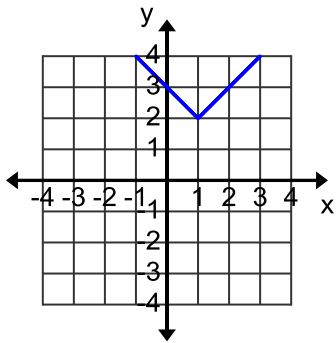


Figure 2

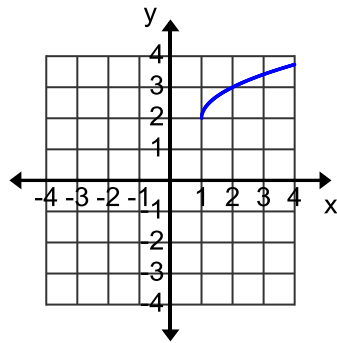


Figure 3

