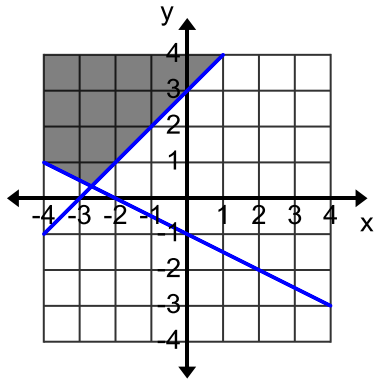


# Trig Review Quiz 0-5 A

- \_\_\_\_\_ 1. What is the domain of  $f(x) = \sqrt{x-1}$   
 A.  $\mathbb{R} : x \neq 1$       B.  $\mathbb{R} : x > 1$       C.  $\mathbb{R} : x \geq 1$       D.  $\mathbb{R} : x \leq 1$
- \_\_\_\_\_ 2.  $x+2 \overline{)4x^2 + 15x + 14}$   
 A.  $4x$       B.  $4x + 7$       C.  $4x + \frac{4}{x+2}$       D.  $4x + 6 + \frac{4}{x+2}$
- \_\_\_\_\_ 3. Simplify  $(n+5)^2$   
 A.  $n^2 + 25$       B.  $n^2 + 10$       C.  $n^2 + 10n + 25$       D.  $n^2 + 10n + 10$
- \_\_\_\_\_ 4. Simplify  $\left(\frac{n^2 y^{-2}}{a^{-4}}\right)^2$   
 A.  $\frac{n^4 y^4}{a^{16}}$       B.  $\frac{n^4 y^4}{a^8}$       C.  $\frac{n^4 a^{16}}{y^4}$       D.  $\frac{n^4 a^8}{y^4}$
- \_\_\_\_\_ 5. In interval notation, what is  $y > 2$ ?  
 A.  $(-\infty, 2)$       B.  $(-\infty, 2]$       C.  $(2, \infty)$       D.  $[2, \infty)$



- \_\_\_\_\_ 6. In the graph above, what system of inequalities is graphed?  
 A.  $\begin{cases} y \geq x + 3 \\ y \geq -\frac{1}{2}x - 1 \end{cases}$       B.  $\begin{cases} y \leq x + 3 \\ y \leq -\frac{1}{2}x - 1 \end{cases}$       C.  $\begin{cases} y \leq x + 3 \\ y \geq -\frac{1}{2}x - 1 \end{cases}$       D.  $\begin{cases} y \geq x + 3 \\ y \geq \frac{1}{2}x - 1 \end{cases}$
- \_\_\_\_\_ 7. If A is a 4 x 5 matrix, B a 4 x 3 matrix, and C a 3 x 5 matrix, what matrices could be multiplied?  
 A. A and B      B. A and C      C. B and C      D. All of them could be
- \_\_\_\_\_ 8. 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.  $-5x - y = -6$
- \_\_\_\_\_ 9. What is the horizontal asymptote of  $y = \frac{4x^3 + 5}{4x^3 + 1}$ ?  
 A.  $y = 0$       B.  $y = \frac{1}{2}$       C.  $y = 1$       D. No horizontal asymptote
- \_\_\_\_\_ 10. What is the slope from  $(1, 4)$  to  $(3, 10)$ ?  
 A. 6      B. 2      C. 3      D. -2