

Algebra 2 Review Quiz 1 (Chapters 1-3) LOOKALIKE

Name _____

_____ 1. Solve: $-3n \leq 12$

_____ 2. Solve: $\frac{2n-6}{3} = \frac{n+3}{2}$

_____ 3. Solve: $-7(2a-4) = -2(5a+2)$

_____ 4. Solve: $2(2n-3) = n+3n-1-5$

_____ 5. Solve: $|n+1| - 2 = 9$

_____ 6. Solve: $|2n+1| \leq 13$

_____ 7. Solve: $|n-8| > -3$

_____ 8. In interval notation, what is $7 < x \leq 9$?

_____ 9. In interval notation, what is $x \leq 3$?

_____ 10. What best describes Graph 1 on the Graph page?

A. Continuous

B. Infinite Discontinuity

C. Jump Discontinuity

D. Endpoint Discontinuity

E. Removeable (Hole) Discontinuity

_____ 11. What is the DOMAIN of Graph 2 on the Graph Page?

_____ 12. What is the RANGE of Graph 2 on the Graph Page?

_____ 13. What is the domain of $f(x) = \frac{2x}{x+3}$?

_____ 14. What is the domain of $f(x) = \sqrt{x+4}$?

_____ 15. Looking at Graph 3, what is the Absolute Minimum of the graph?

_____ 16. Looking at Graph 3, what interval is the graph increasing?

_____ 17. Factor $x^2 + 11x + 30$

_____ 18. Factor $x^2 + 4x - 12$

_____ 19. Factor $x^2 - 16$

_____ 20. What is the x-intercept of $f(x) = x^2 + 8x + 12$?

_____ 21. What is the y-intercept of $f(x) = x^2 + 8x + 12$?

_____ 22. What is the Right End Behavior of Graph 4?

A. As $x \rightarrow -\infty, f(x) \rightarrow -\infty$ B. As $x \rightarrow -\infty, f(x) \rightarrow \infty$

C. As $x \rightarrow \infty, f(x) \rightarrow -\infty$ D. As $x \rightarrow \infty, f(x) \rightarrow \infty$

_____ 23. When graphing $f(x) = -3(x - 2)^3 - 5$, what is true?

A. The graph shifted right 2 units

B. The graph stretched horizontally

C. The graphed shifted up 5 units

D. None of these things happened.

Look at the graphs on the graph sheet and determine the equation of graph 6 and 7.

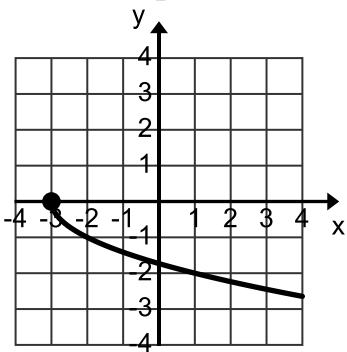
Don't worry about the a value. In other words, the answer will not be $f(x) = 3(x + 2)^2 + 4$, but $f(x) = (x + 2)^2 + 4$ (no a value of 3).

_____ 24. Graph 5

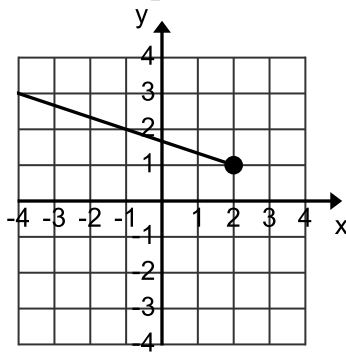
_____ 25. Graph 6

Graph Page

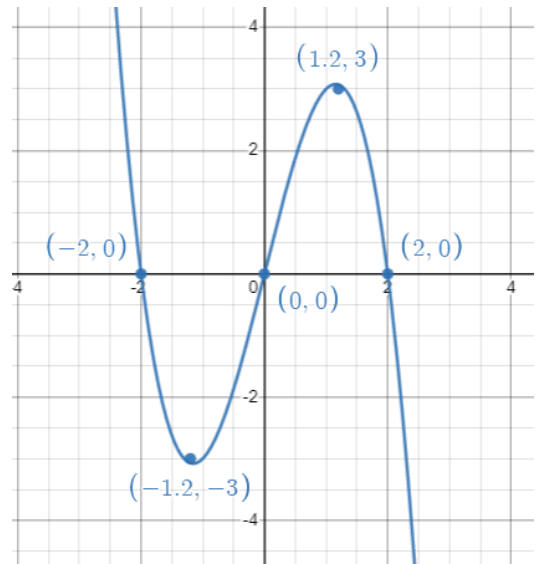
Graph 1



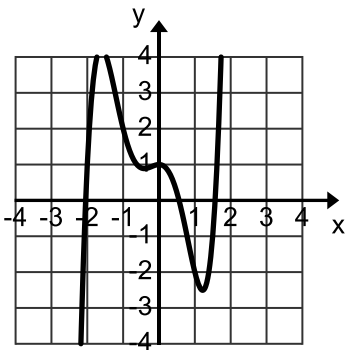
Graph 2



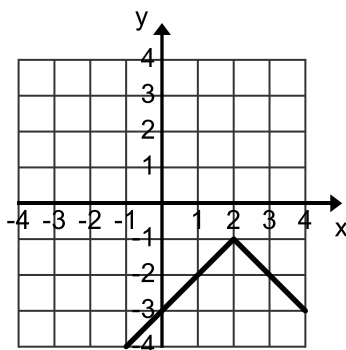
Graph 3



Graph 4



Graph 5



Graph 6

