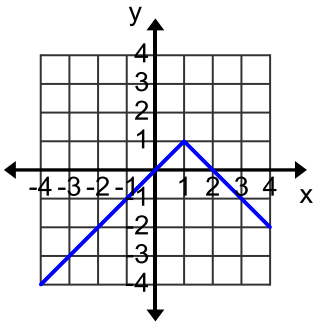
Trig Chapter 6 Practice Test 2

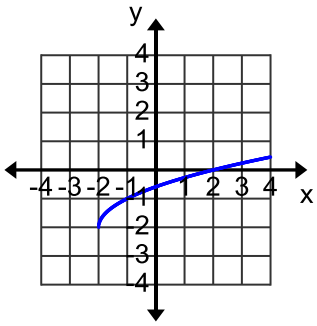
Name _____

Give the equation of each graph at the bottom of the page.

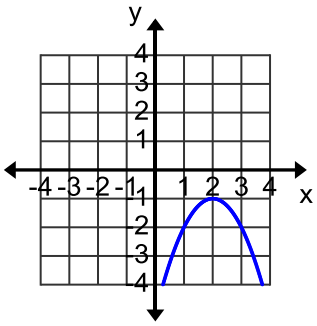
Graph 1



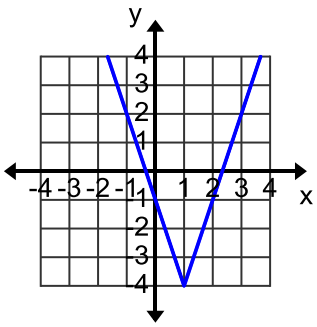
Graph 2



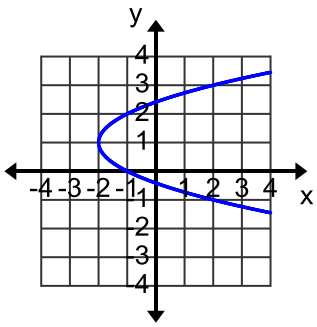
Graph 3



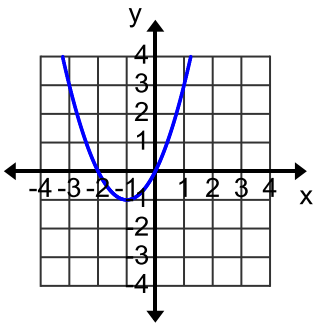
Graph 4



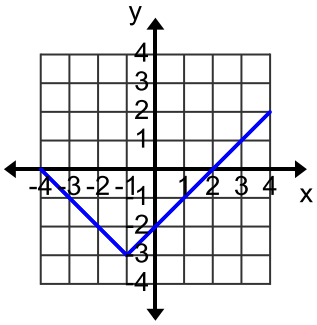
Graph 5



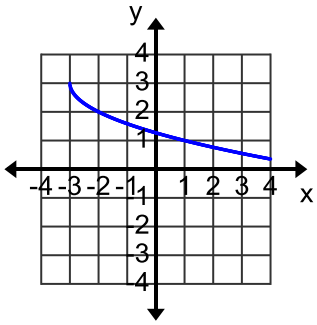
Graph 6



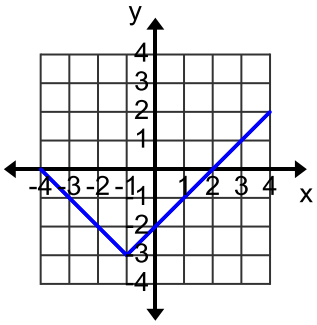
Graph 7



Graph 8



Graph 9



1: _____ 2. _____ 3. _____

4: _____ 5. _____ 6. _____

7: _____ 8. _____ 9. _____

Solve the following inequalities.

10. $|x+1|>8$

11. $|2x-3|>11$

12. $|3x-1|<5$

13. $|5x+11|<-4$

For the even numbers, determine the horizontal and vertical asymptotes.
For the odd numbers, determine if there is a slant or hole.

14. $y=\dfrac{x}{x^2-3x-10}$

H: _____ V: _____

15. $y=\dfrac{x^2+9x+1}{x+4}$

Hole: _____ Slant: _____

16. $y=\dfrac{x^2-8}{2x^2}$

H: _____ V: _____

17. $y=\dfrac{x^2+7x+6}{x+6}$

Hole: _____ Slant: _____

18. $y=\dfrac{6x^5+1}{x-4}$

H: _____ V: _____

19. $y=\dfrac{x^2+7x+1}{x-3}$

Hole: _____ Slant: _____

20. $y=\dfrac{3x+1}{x^2-4}$

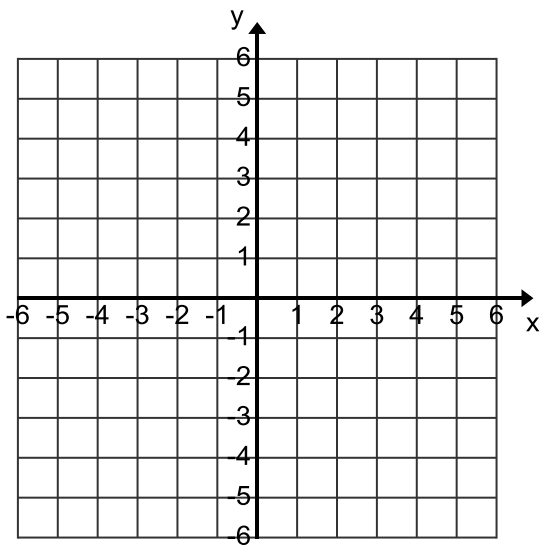
H: _____ V: _____

21. $y=\dfrac{x^2+8x+12}{x+2}$

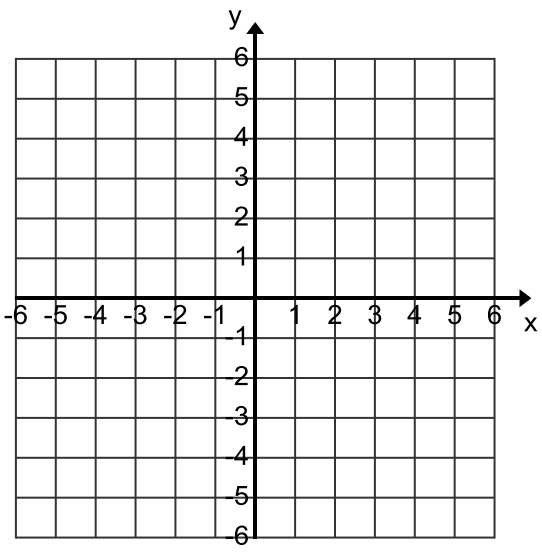
Hole: _____ Slant: _____

Graph the following on the given graphs.

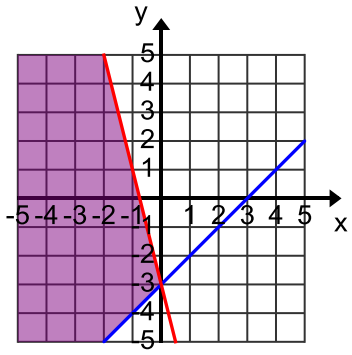
22. $\begin{cases} y < -x - 1 \\ y \leq 3x + 1 \end{cases}$



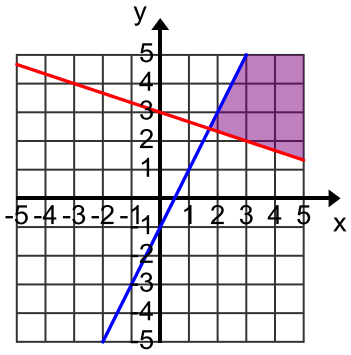
23. $\begin{cases} y \leq 2x - 1 \\ y > -x + 1 \end{cases}$



For 24-25, tell what system of inequalities is graphed.



24. $\begin{cases} \quad \\ \quad \end{cases}$



25. $\begin{cases} \quad \\ \quad \end{cases}$