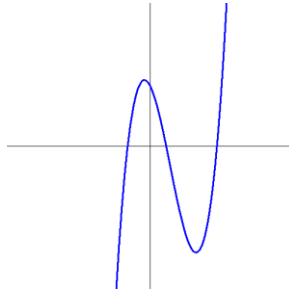
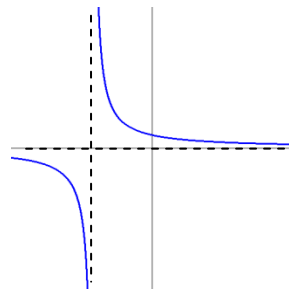


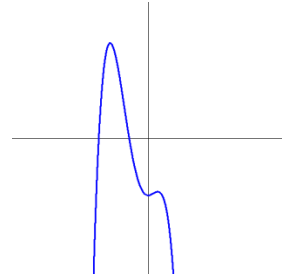
Graph A



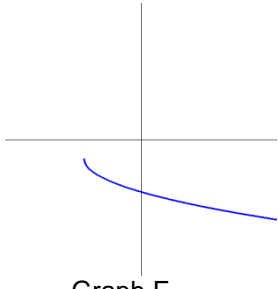
Graph B



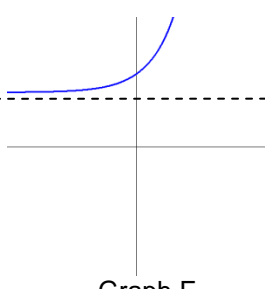
Graph C



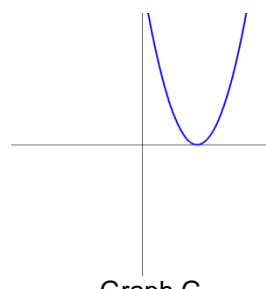
Graph D



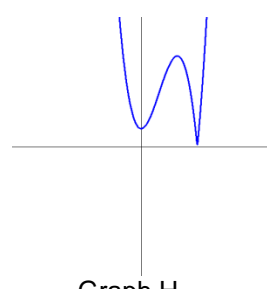
Graph E



Graph F



Graph G



Graph H

- Which graph represents a quadratic function?
 - Graph D
 - Graph E
 - Graph F
 - Graph G
 - Graph H
- Which graph represents an exponential function?
 - Graph A
 - Graph C
 - Graph E
 - Graph F
 - Graph H
- Which graph represents a reciprocal function?
 - Graph A
 - Graph C
 - Graph F
 - Graph G
 - Graph H
- Which graph represents an absolute value function?
 - Graph A
 - Graph B
 - Graph C
 - Graph D
 - Graph H
- Which of the graphs have a POSITIVE x-intercept? Circle ALL correct answers.
 - Graph A
 - Graph B
 - Graph C
 - Graph D
 - Graph E
 - Graph F
 - Graph G
 - Graph H
- Which of the graphs have a lead coefficient (first number) which is negative? Circle ALL correct answers
 - Graph A
 - Graph B
 - Graph C
 - Graph D
 - Graph E
 - Graph F
 - Graph G
 - Graph H
- Which of the graphs do NOT have a domain of $(-\infty, \infty)$? Circle ALL correct answers
 - Graph A
 - Graph B
 - Graph C
 - Graph D
 - Graph E
 - Graph F
 - Graph G
 - Graph H

8 Which of the graphs do NOT have a range of $(-\infty, \infty)$? Circle ALL correct answers

A. Graph A

B. Graph B

C. Graph C

D. Graph D

E. Graph E

F. Graph F

G. Graph G

H. Graph H

9. Which of the following could be the equation of graph A?

A. $f(x) = \ln x$

B. $f(x) = e^{x+2}$

C. $f(x) = e^{x+2} - 4$

D. $f(x) = 2\ln(x+4)+2$

E. $f(x) = 2\ln(x-4)+2$

10. Which of the following could be the equation of graph B?

A. $f(x) = -x^3 + 3x^2 - 2x + 3$

B. $f(x) = x^3 + 3x^2 - 2x - 3$

C. $f(x) = x^3 - 3x^2 - 2x + 3$

D. $f(x) = -x^3 + 3x^2 - 2x - 3$

E. $f(x) = -x^4 + 3x^2 - 2x - 3$

11. Which of the following could be the equation of graph C?

A. $f(x) = \frac{2}{x} + 3$

B. $f(x) = 2\ln 3x$

C. $f(x) = \frac{-2}{x-3}$

D. $f(x) = \frac{2}{x-3}$

E. $f(x) = \frac{2}{x+3}$

12. Which of the following could be the equation of graph D?

A. $f(x) = -x^4 - 2x^3 + 2x^2 - 3$

B. $f(x) = x^4 - 2x^3 + 2x^2 - 3$

C. $f(x) = -2x^3 + 2x^2 - 3$

D. $f(x) = -2x^3 + 2x^2 + 3$

E. $f(x) = -x^2 - 7x + 11$

13. Which of the following could be the equation of graph E?

A. $f(x) = \frac{-2}{x+3} - 2$

B. $f(x) = -(x+3)^2 - 2$

C. $f(x) = -x^3 - 2x - 2$

D. $f(x) = -\sqrt{x+3} - 2$

E. $f(x) = 2x + 3$

14. Which of the following could be the equation of graph F?

A. $f(x) = \frac{2}{x} + 3$

B. $f(x) = -2^x + 3$

C. $f(x) = 2^x + 3$

D. $f(x) = \frac{2}{x} - 3$

E. $f(x) = 2^x$

15. Which of the following could be the equation of graph G?

A. $f(x) = x^2 + 6x + 9$

B. $f(x) = x^2 + 6x + 10$

C. $f(x) = x^2 - 6x + 9$

D. $f(x) = x^2 - 6x + 10$

E. $f(x) = |x^3 - 3x|$

16. Which of the following could be the equation of graph H?

A. $f(x) = |x^3 - 3x^2| + 7$

B. $f(x) = |x^3 - 3x^2| - 7$

C. $f(x) = -|x^3 - 3x^2| - 1$

D. $f(x) = |x^3 - 3x^2 - 1|$

E. $f(x) = |x^4 - 3x^2 - 1|$

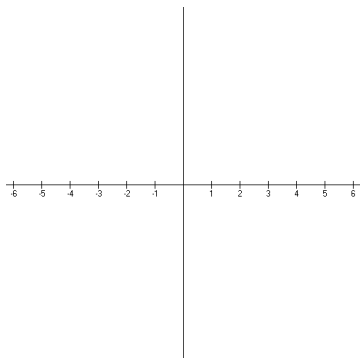
Pre-Calculus

Families of Graphs Review

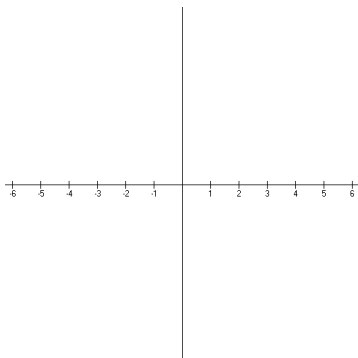
SKETCH a graph of each function below:

Part II – Calculator Required

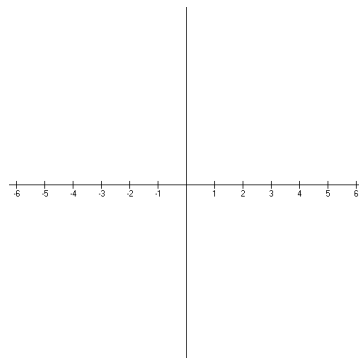
17. $f(x) = (x+1)(x-2)(x-4)$



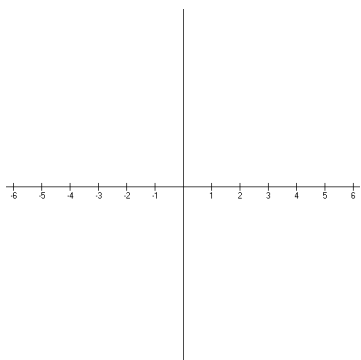
18. $f(x) = \ln(x-2)$



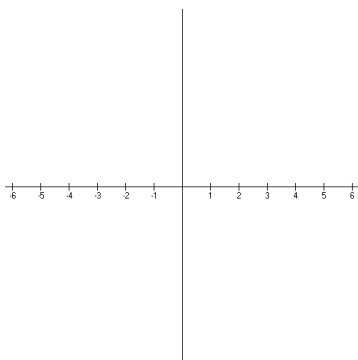
19. $f(x) = -(x+2)(x-1)(x+3)(x+1)$



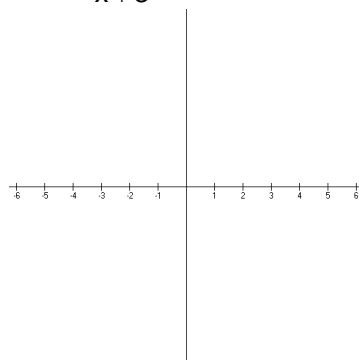
20. $f(x) = |(x-2)(x+2)|$



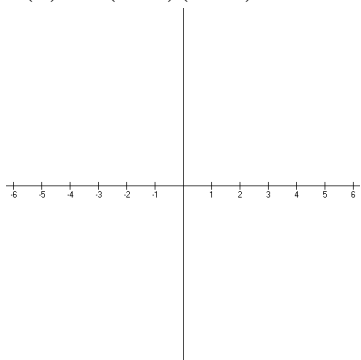
21. $f(x) = 2^x - 2$



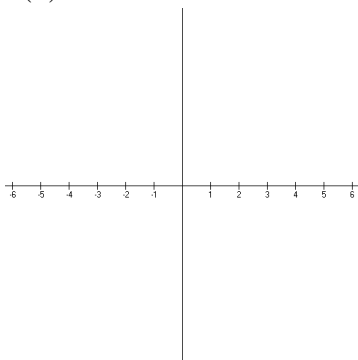
22. $f(x) = \frac{-2}{x+3} + 1$



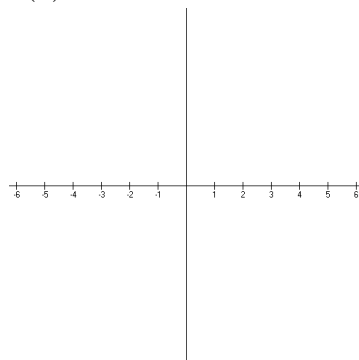
23. $f(x) = -(x+1)(x-2)$



24. $f(x) = \sqrt{x+3} - 2$



25. $f(x) = 3x - 2$



26. $f(x) = \frac{2}{x}$

27. $f(x) = (x)(x-1)(x+2)(x+3)$

28. $f(x) = -\left(\frac{1}{2}\right)^x$

