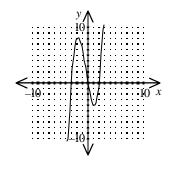
Drafting and Polynomials Exam

Name_

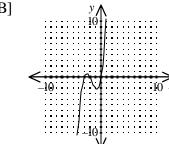
A graphing calculator is NOT ALLOWED on this portion of the exam.

1. Graph.
$$f(x) = x | x + 2 \iint x - 3 \iint$$

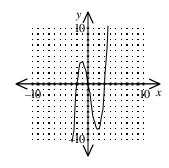
[A]



[B]



[C]



[D] None of these

Drafting and Polynomials Exam

Name

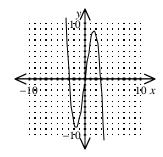
A graphing calculator is NOT ALLOWED on this portion of the exam.

- 2. What are the *x*-intercepts of the parabola with equation $y = 2x^2 + 8x + 6$? What are the coordinates of the vertex?
 - [A] The *x*-intercepts are -1 and -3. The vertex is (2, 2).
 - [C] The *x*-intercepts are -1 and -3. The vertex is (-2, -2).
- [B] The *x*-intercepts are -1 and $\frac{1}{3}$. The vertex is (4, -4).
- [D] The *x*-intercepts are -1 and $-\frac{1}{3}$. The vertex is (-4, 4).

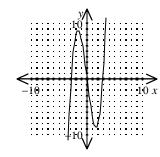
A graphing calculator is NOT ALLOWED on this portion of the exam.

3. Determine which of the graphs shown is the graph of $y = x^3 - 8x$.

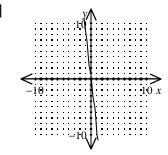
[A]



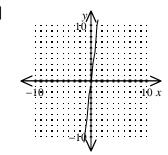
[B]



[C]



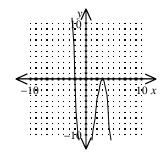
[D]



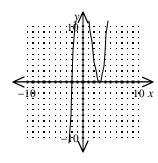
A graphing calculator is NOT ALLOWED on this portion of the exam.

4. Match the function with its graph. $y = -\int x - 2 \iint x + 3 \iint^2$

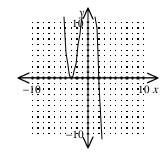
[A]



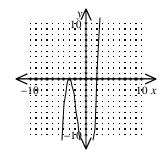
Έ



[C]

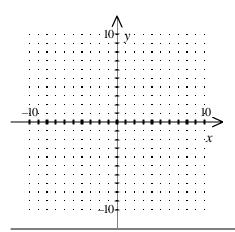


[D]



A graphing calculator is NOT ALLOWED on this portion of the exam.

5. Graph: $y = x^5$



[5]

6. Sketch the graph of the function. $f(x) = (x+1)^4$