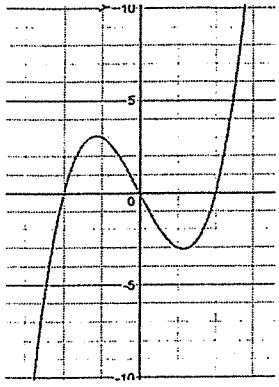
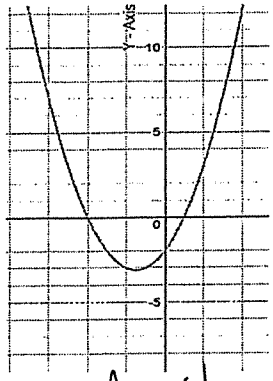
Key

Even and Odd Functions - Practice Problems

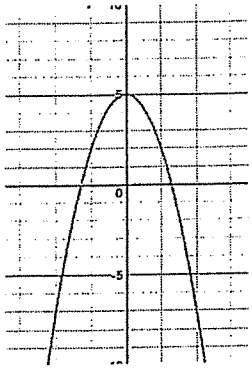
A. Graphically determine whether the following functions are Even, Odd, or Neither

1. 

Odd

2. 

Neither

3. 

Even

B. Algebraically determine whether the following functions are Even, Odd, or Neither

1. $f(x) = x^3 - x^2 + 4x + 2$ — Neither
2. $f(x) = -x^2 + 10$ — Even
3. $f(x) = x^3 + 4x$ — Odd
4. $f(x) = -x^3 + 5x - 2$ — Neither
5. $f(x) = \sqrt{x^4 - x^2} + 4$ — Even
6. $f(x) = |x + 4|$ — Neither
7. $f(x) = |x| + 4$ — Even
8. $f(x) = x^4 - 2x^2 + 4$ — Even
9. $f(x) = \sqrt[3]{x}$ — Odd
10. $f(x) = x\sqrt{x^2 - 1}$ — Odd