AMC ⇒ 10 - 2/15/2000

Examples of the Easiest Problems:

2. $2000(2000^{2000}) =$
(A) 2000^{2001} (B) 4000^{2000} (C) 2000^{4000}
(D) $4{,}000{,}000^{2000}$ (E) $2000^{4{,}000{,}000}$

5. Chandra pays an on-line service provider a fixed monthly fee plus an hourly charge for connect time. Her December bill was \$12.48, but in January her bill was \$17.54 because she used twice as much connect time as in December. What is the fixed monthly fee?
(A) \$2.53 (B) \$5.06 (C) \$6.24 (D) \$7.42 (E) \$8.77

Examples of the Hardest Problems:

22. One morning each member of Angela's family drank an 8-ounce mixture of coffee with milk. The amounts of coffee and milk varied from cup to cup, but were never zero. Angela drank a quarter of the total amount of milk and a sixth of the total amount of coffee. How many people are in the family?
(A) 3 (B) 4 (C) 5 (D) 6 (E) 7

24. In year N, the 300th day of the year is a Tuesday. In year $N + 1$, the 200th day is also a Tuesday. On what day of the week did the 100th day of year $N - 1$ occur?
(A) Thursday (B) Friday (C) Saturday (D) Sunday (E) Monday