Physics 2205 26 August, 1999
Quiz 2

Instructions: Put your name and 6-digit ID number in the upper right-hand corner of the card you are given. Write your answers in large letters in one row across the card (e.g. a b c d).

1. $ax^2 + b = 6$

   a. $x = (6-b)/a$ c. $x = [\ (6-b)/a\ ]^{1/2}$

   b. $x = 6/a - b$ d. $x = (6+b)^{1/2} / a$

2. The surface area of a sphere of radius *r* is:

   a. $A = \pi\ r^2$ c. $A = (4/3)\ \pi\ r^3$

   b. $A = 4\ \pi\ r^2$ d. $A = (4/3)\ \pi\ r^2$

3. In the triangle below, which of the following is true?

   a. $\cos \alpha = y/r$
   b. $\sin \alpha = x/r$
   c. $\tan \beta = y/x$
   d. $\sin \beta = \cos \alpha$

4. $\log_{10}x = 3$, $\log_{10}y = 1$

   a. $x/y = 0.3$ c. $x/y = 3$

   b. $x/y = 2$ d. $x/y = 100$