Quiz 2
BE-104, Dr. C. S. Tritt, Spring '05
Problems 1 and 2 are worth 25 points each. Problem 3 is worth 50 points. Snip...

1. Given the following declarations and definitions:
```
int a = 5; double d = 2.5;
int b = 3; double e = 10.0;
int c; double f;
```

Evaluate each of the following expressions (or indicate that the expression would result in an error): (5 points each)

```
c = a * b; = 5 * 3 = 15
c = e / d; = Error, type mismatch wont even compile!
f=d/e; = 2.5/10.0 = 0.25
c=a + b * 3;=5+(3*3)=5+9=14
f=4*d/(b+2);=4*2.5/(3+2)=10./5 =2.
```

In general, int's can be promoted to double's, but double's can't be demoted to int's.
2. What are named constants and why are they generally preferable to literal constants?

Named constants are "final" variables that make programs easier to understand and modify (any 2 or 3 of the 3 for full credit). Literal constants are just numbers like 3.1415. Implying literal constants are "variables" - 10 .
3. Write a fragment of code (you don't have to include stuff like import and main) that illustrates how you would prompt the user for console or GUI mode input of an integer value and place their response into a type int variable called age (You may use the back of this page for more space).

Anything like...

```
age = Integer.parseInt(JOptionPane.showInputDialog("Enter age: "));
```

or

```
Scanner sysin = new Scanner(System.in);
System.out.println("Enter age: ");
age = sysin.nextInt();
```

Not assigning JOptionPane result (using a parameter) -5 . Other errors as appropriate.

