Problem Set 5, Part I

Problem 1:Evaluating expressions

1-1) first expression: 17
second expression: 21.7
Explanation: The values are different because the numbers assigned in b and d are different.

1-2) first expression: 7
second expression: 7.5
Explanation: // operator produces a float result while / operator produces an integer.

1-3) first expression: 10
second expression: 10
Explanation: round () and int() both produce the integers. Round number of 10 and the integer of 10 are the same.

1-4) first expression: 30.0
second expression: 225.0
Explanation: Operator * means multiplication while ** means exponentiation.

1-5) first expression: 'be'
second expression: 4.0
Explanation: 'b' + 'e' is the addition of two strings, which produces a string. b + e is the addition of two variables which are numbers, and the result is a float number because b is an integer and e is a float.

Problem 2: Writing expressions and assignment statements

```
2-1) a = a + 5

2-2) b ** a

2-3) b = round(a / 3, 2)

2-4) a == b

2-5) a % 3 == 0

2-6) b > 16 or b < 6
```

Problem 3: Decision structures

3-1)
```
mound
redound
```

3-2)
```
round
redound
```

3-3)
```
found
redound
```

3-4)
```
bound
zounds
redound
```

3-5)
```
found
redound
```

3-6)
```
mound
ground
redound
```