

IV. Answer the following (1 pt each)

- 1) What class must be used to use **ceil, floor, abs, pow, random, or sqrt**? 1) \_\_\_\_\_
- 2) In what package is the answer to IV.#1) found? 2) \_\_\_\_\_

V. Answer the following (1 pt each)

- 1) **(int)(Math.random( )\*(60) + 5)** generates random numbers between (inclusive) what two numbers? \_\_\_\_\_ and \_\_\_\_\_
- 2) Complete the following so that a random number between 10 and 100 would be generated. **(int)(Math.random( )\*( \_\_\_\_\_ ) + \_\_\_\_\_ )**

## Unit 2 Worksheet 2 - Math methods

1 of 2

Pts: 15

Name \_\_\_\_\_

class hour \_\_\_\_\_

I. Determine the exact value of the following Java arithmetic expressions. (0.5 pts each)

- 1) Math.sqrt(16.0) 1) \_\_\_\_\_
- 2) Math.pow(2, 3) 2) \_\_\_\_\_
- 3) Math.abs(-3.4) 3) \_\_\_\_\_
- 4) Math.abs(-3.9) 4) \_\_\_\_\_
- 5) Math.ceil(5.1) 5) \_\_\_\_\_
- 6) Math.floor(5.1) 6) \_\_\_\_\_
- 7) Math.floor(5.9) 7) \_\_\_\_\_
- 8) Math.sqrt(Math.abs(-9)) 8) \_\_\_\_\_
- 9) Math.abs(Math.sqrt(Math.pow(3,2))) 9) \_\_\_\_\_
- 10) Math.round(-5.1) 10) \_\_\_\_\_
- 11) Math.round(7.9) 11) \_\_\_\_\_

II. Convert each of the following mathematical expressions to a Java arithmetical expression  
(1 pt each)

- 1)  $\frac{\sqrt{\text{rate} + \text{time}}}{2d}$  1) \_\_\_\_\_
- 2)  $\sqrt{x^2 + y^2}$  2) \_\_\_\_\_
- 3)  $(a + \sqrt{b})^7$  3) \_\_\_\_\_
- 4)  $|2^{\sqrt{x}}|$  4) \_\_\_\_\_

III. Convert the following Java code into an algebraic expression. (1.5 pts)

```
x = (-b + Math.sqrt(Math.pow(b,2) - 4.0 * a * c))/(2 * a);
```

x = \_\_\_\_\_

**OVER**