

### Quiz #2: Take-Home

**Directions:** Please show all your work since partial credit is given. Answers without the necessary work will receive no credit. The quiz is due no later than **Monday, September 14**, at the beginning of class.

1. Simplify the following expressions.

a)  $5(x+12)$

b)  $5 \cdot 3^4 + 16 \div 8 - 2^2$

c)  $4(y-3)$

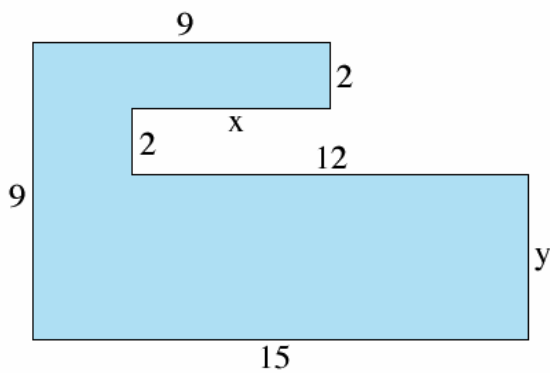
d)  $2+5[9+3(4-17^0)]$

e)  $15-6(9-7)$

2. Frieda earns \$16 an hour for the first 40 hours she works each week. She has \$129 deducted from each check for taxes and retirement. If she works 34 hours this week, what is her take-home pay?

\_\_\_\_\_

3. Use the following figure for the questions below.



- a) The length of the side labeled  $x$  is \_\_\_\_\_
- b) The length of the side labeled  $y$  is \_\_\_\_\_
- c) The area of the composite figure is \_\_\_\_\_