## Bellwork Hon Alg 2 Monday, March 27, 2017

- 1. If a < b and  $a^2 2ab + b^2 = 169$ , what is the value of a b?
- 2. If the perimeter of a square is 28, what is the length of the diagonal of the square?
  - A.  $2\sqrt{14}$
- B.  $7\sqrt{2}$
- C.  $7\sqrt{3}$

- D. 14
- E.  $28\sqrt{2}$

- 3. If a is 63% of x and c is  $\frac{3}{8}$  of x, which of the following is the closest equivalent of the ratio of a to c?
- A. 0.006
- B. 0.236
- C. 0.381
- D. 0.595
- E. 1.680

- 4. At Ernie's Fruit Stand, 3 apples and 5 cherries cost \$1.25. 15 apples and 100 cherries cost \$9.25. What is the cost of 6 apples and 35 cherries?
  - A. \$3.25
  - B. \$3.50
  - C. \$3.62
  - D. \$4.00
  - E. \$5.25
- 5. In right  $\triangle$  *ABC*, the longest side *AB*, is 4 feet long, and  $\triangle$  's *BAC* & *ABC* are equal. What is the perimeter of the triangle in feet.
- A. 8
- B.  $4\sqrt{2}$
- C.  $4 + 4\sqrt{2}$
- D. 12
- E.  $8 + 4\sqrt{2}$

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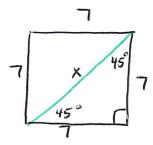
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$$a^2 - 2ab + b^2 = 169$$

$$\sqrt{(a-b)^2} = 169$$
  
 $a-b = \pm 13$ 

if alb then a-b is regative.

$$a - b = (-13)$$





$$\chi^{2} = 7^{2} + 7^{2}$$
 $\sqrt{\chi^{2}} = 98$ 

$$a = .63x$$

$$\frac{a}{c} = \frac{,63x}{,375x}$$

THIS MUST BE > 1

SO THE GALY Reasonable

answer is



you could solve this system of eas then

find the cost of

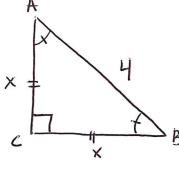
64 2 35C or

ADD Eas toget

Then: 1043 18A + 105c = 10.50

6A +35C=\$3.50





$$X = \sqrt{g} = 2\sqrt{2}$$

perimeter = 212+212+4

