1. The distance from town A to town B is five miles. C is six miles from B. Which of the following could be the distance from A to C?

I 11
II 1
III 7

- ○ A. I only
- ○ B. II only
- ○ C. I and II only
- ○ D. II and III only
- ○ E. I, II, or III.

Hon ALG 2 Bellwork
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2. $\sqrt{5}$ percent of $5\sqrt{5}$ =

- ○ A. 0.05
- ○ B. 0.25
- ○ C. 0.5
- ○ D. 2.5
- ○ E. 25

3. If pqr = 1 , rst = 0 , and spr = 0, which of the following must be zero?

- ○ A. P
- ○ B. Q
- ○ C. R
- ○ D. S
- ○ E. T

4. $\dfrac{6^5 - 6^4}{5} =$

- ○ A. 1/5
- ○ B. 6/5
- ○ C. 6^3
- ○ D. $6^4 / 5$
- ○ E. 6^4

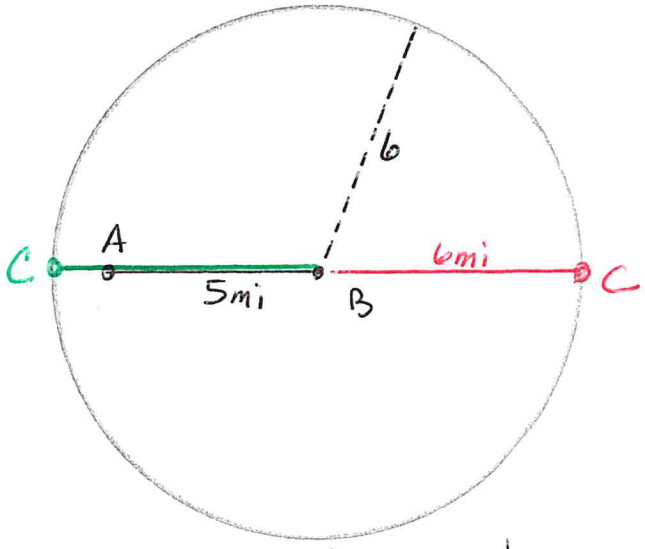
Bellwork Answers Hon Alg 2 Mon 11-28-16

(1) A to C up to 11 mi

A to C as little as 1 mi

$1 \leq A\text{to}C \leq 11$

E



Town C is anywhere on this circle

(2) $\frac{\%}{100} = \frac{is}{of}$ $\frac{\sqrt{5}}{100} = \frac{x}{5\sqrt{5}}$

$100x = (\sqrt{5})(5\sqrt{5})$

$100x = 25$

$x = \frac{25}{100} = .25$

B

(3) $pqr = 1 \rightarrow p \neq 0 \quad q \neq 0 \quad r \neq 0$

since $rst = 0$ & $spr = 0$

given p & $r \neq 0$ s must be 0

D

④ $\frac{6^5 - 6^4}{5} = \frac{6^4(6-1)}{5} = \frac{6^4(5)}{5}$

$= \boxed{6^4}$

E