Bellwork

Alg 2

Tuesday, February 19, 2019

1. Find all VA and Holes, if any.

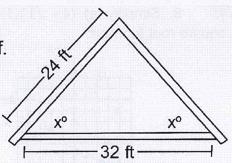
$$\frac{6x^5 - 96x}{2x^4 + 4x^3 - 18x^2 - 36x}$$

VA:

Holes:

2. An architect drew the figure at the right while designing a roof. The dimensions shown are for the interior of the triangle.

What is the value of Cos X?



Note: Figure not drawn to scale.

- 3. The sum of three numbers is 855. One of the numbers, x, is 50% more than the sum of the other two numbers. What is the value of x?
- A. 570
- B. 513
- C. 214
- D. 155

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1. Find all VA and Holes, if any.

IV.

 $\frac{6x^5 - 96x}{2x^4 + 4x^3 - 18x^2 - 36x}$ 

VA:

/A:

X= ±3

X=0,-2

Holes:

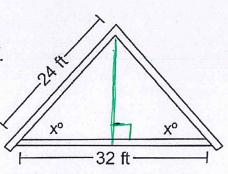
 $\frac{6 \times (x^2 + 4)(x + 2)(x - 2)}{2 \times (x + 2)(x + 3)(x - 3)}$ 

 $6x^{5}-96x$   $6x^{5}-96x$   $6x^{2}+4)(x^{2}-4)$   $6x^{2}+4)(x^{2}-4)$   $6x^{2}+4)(x+2)(x-2)$   $2x^{4}+4x^{3}-18x^{2}-36x$   $2x^{2}(x^{3}+2x^{2}-9x-18)$   $x^{2}+2$ 

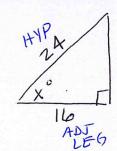
AnswERS

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$$x+y+2 = 855$$
  
 $-x$ 
 $y+2 = (855-x)$ 

$$x = 1.5(y+2)$$

$$x = 1.5(855-x)$$

$$x = 1282.5 - 1.5x$$

$$+1.5x + 1.5x$$

$$\frac{2.5x}{2.5} = \frac{1282.5}{2.5}$$

$$x = 5/3$$