Degree of Polynomial	Name by Degree
0	Constant
1	Linear
2	Quadratic
3	Cubic

4 Quartic
5 Quintic

# of terms in polynomial	Name by # of terms
1	Monomial
2	Binomial
3	Trinomial

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Exploring; "Building Polynomials" page 7

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Answer Question 11 - SAS2

answer is on page 7 of Agilemind website

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Answer Question 12 - SAS2

answer is on page 8 of Agilemind website

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Exploring; "Building Polynomials" page 9

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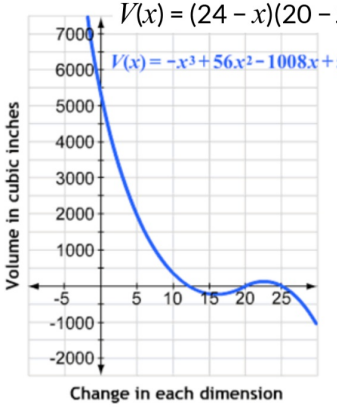
Answer Questions 13 & 14 - SAS2

answers are on page 9 of Agilemind website

First use a graphing calculator to graph this function. You'll need to find a good window to show the shape of the graph. Then put it on the graph in the SAS.

$V(x) = (24 - x)(20 - x)(12 - x)$



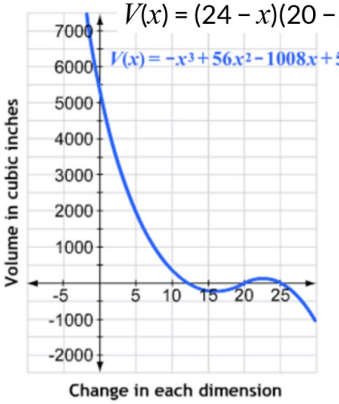
What are the x-intercepts?

12, 20, and 24

What do the x-intercepts represent?

if you could reduce each dimension by this amount there would be zero volume.

$V(x) = (24 - x)(20 - x)(12 - x)$



What is the y-intercept?

5760

What does the y-intercept represent?

The volume of the luggage if the dimensions are not changed.

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Answer Questions 15 & 16 - SAS2

answers are on page 10 of Agilemind website

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Exploring; "Building Polynomials" page 11

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Answer Questions 17 - SAS2

Where on the Volume graph is the function increasing?

Between 16 & 23

(16, 23)

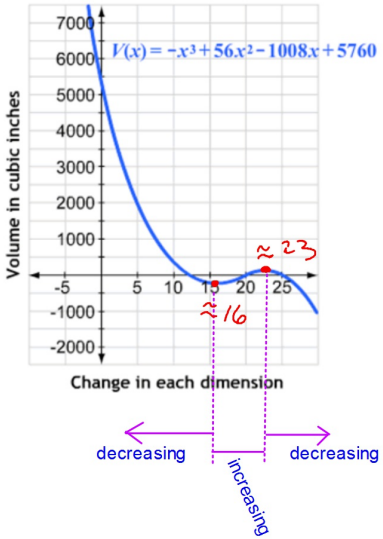
Where on the Volume graph is the function decreasing?

1. $(-\infty, 16)$

2. $(23, \infty)$

Where on the Volume graph is the function neither increasing nor decreasing?

Right at 16 & 23 where it's changing from dec to inc & vice versa.



Hwk #18

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- More Practice 1-6
- SAS2 problem 18a,b