Quantitative Skills & Reasoning - Math 1001

Dr. Bob Brown, Jr.

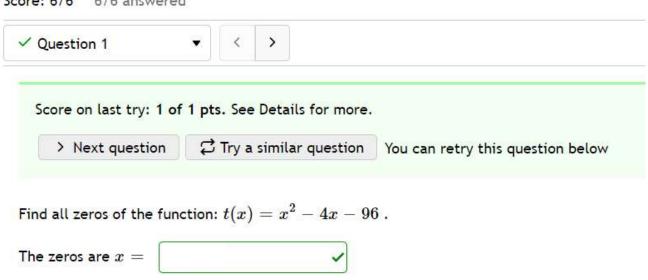
Dean Emeritus

Professor Emeritus

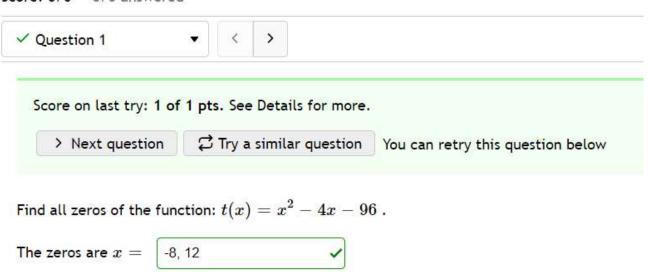
East Georgia State College

Zoom Video Conference 10-10-2019

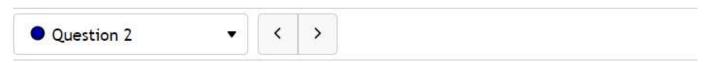
Score: 6/6 6/6 answered



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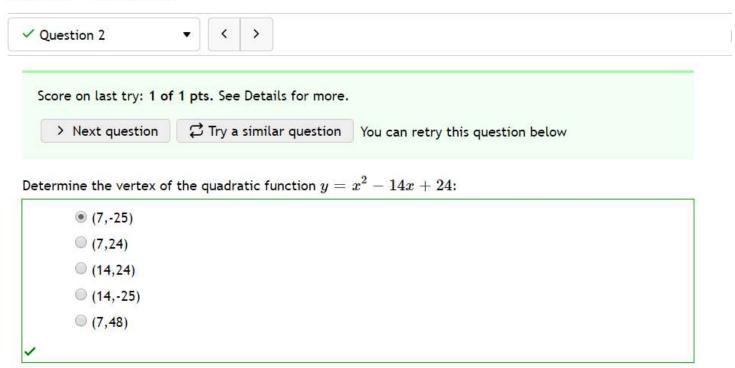
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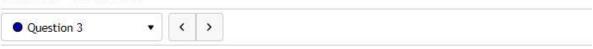
Determine the vertex of the quadratic function $y=x^2-14x+24$:

- (7,-25)
- (7,24)
- (14,24)
- (14,-25)
- (7,48)

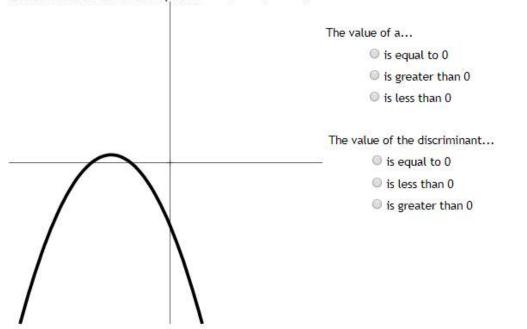
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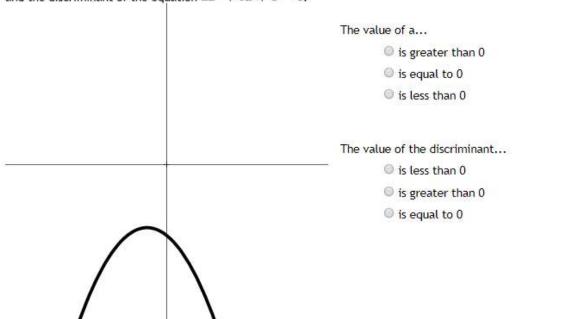
Use the graph of the function $f(x)=ax^2+bx+c$ given below, what can you say about the value of a and the discriminant of the equation $ax^2+bx+c=0$?

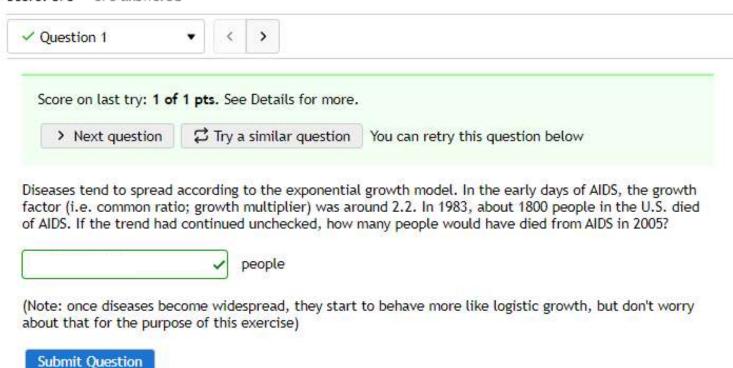


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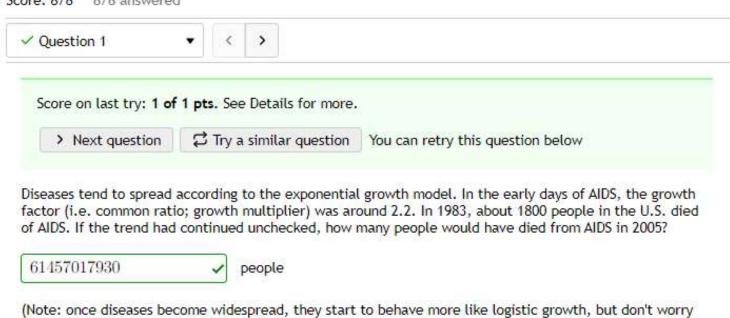


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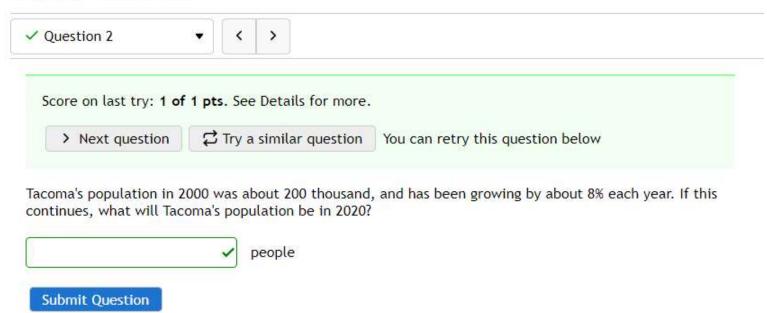


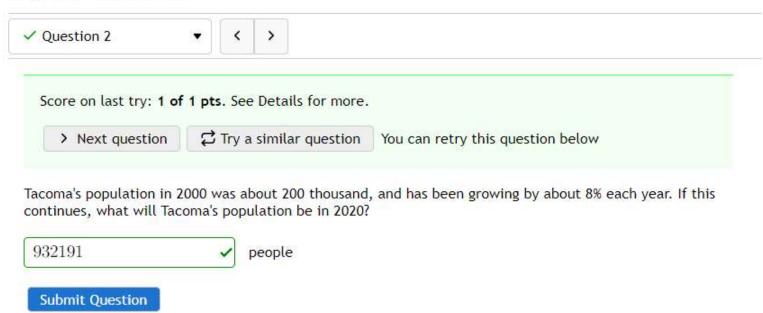
Score: 8/8 8/8 answered



Submit Question

about that for the purpose of this exercise)





Score: 8/8 8/8 answered



Inflation causes things to cost more, and for our money to buy less (hence your grandparents saying "In my day, you could buy a cup of coffee for a nickel"). Suppose inflation decreases the value of money by 3% each year. In other words, if you have \$1 this year, next year it will only buy you \$0.97 worth of stuff. How much will \$100 buy you in 20 years?

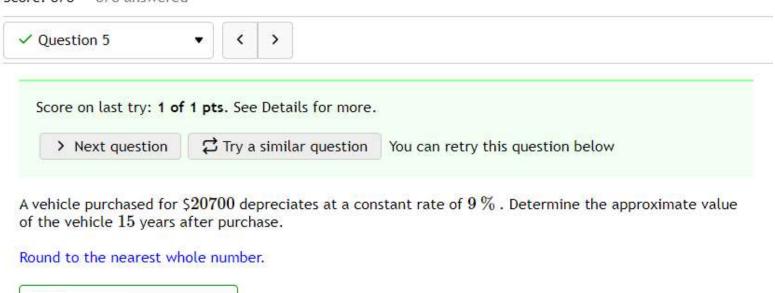


Score: 8/8 8/8 answered

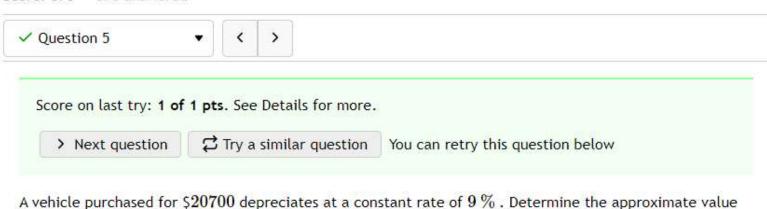


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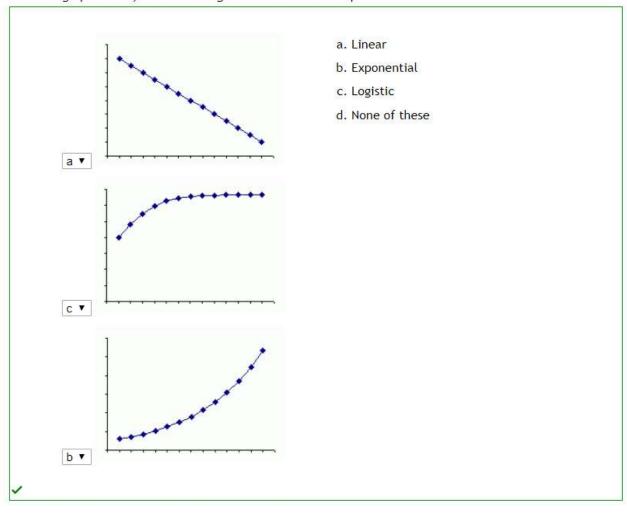


A vehicle purchased for \$20700 depreciates at a constant rate of $9\,\%$. Determine the approximate value of the vehicle 15 years after purchase.

Round to the nearest whole number.



For each graph shown, match which growth model it best represents.



	Car Value		
The function $V(t)=36200(0.94)^t$ represents the value (in dollars) of a car t years after its purchase function to complete the statements below.			
B	The value of this car is decreasing ▼ ✓ at a rate of 6 ✓ of percent per year ▼ ✓		
	The purchase price of the car was 36200 ✓ dollars ✓ .		

House Value		
The purchase price of the house was 164000 dollars	▼ ✓ .	