

## Landfill contained 1400 tons of solid waste

What is the increasing function of a landfill?

The increasing function  $W$  models the total amount of solid waste stored at the landfill. Planners estimate that  $W$  will satisfy the differential equation  $\frac{dW}{dt} = 1(W - 300)$  for the next 20 years.  $W$  is measured in tons, and  $t$  is measured in years from the start of 2010.

How much construction & demolition waste is recycled in China?

Construction and demolition waste (CDW) accounts for 30% to 40% of the total amount of waste in China. CDW is usually randomly dumped or disposed in landfills and the average recycling rate of CDW in China is only about 5%.

What is the landfill rate of CDW in Shanghai?

The landfill rate of CDW in Shanghai is about 70% to 80%. The rest of the combustible CDW (around 10%) is burned directly or as fuel for some factory. As a coastal city, about 70% to 80% of the construction dregs are used for sea reclamation. This also happens in other coastal cities, including Shenzhen, Qingdao, Tianjin, Hong Kong and Macao.

How to manage construction waste disposal?

Construction waste disposal organizations should establish a comprehensive information platform for the management of construction waste disposal. CDW disposal fee can be fully returned by the Ministry of Housing and Urban-Rural Development if recycling rate of concrete, brick, mortar and planting soil can reach 30%, 20%, 10% and 10% respectively.

How can construction and demolition waste be recycled?

For recycling and reusing CDW within the building industry, waste concrete, bricks, dregs and mortar can be converted into recycled materials, such as recycled concrete, lightweight block and recycled aggregate (Ying and Xu, 2013). Fig. 5. Circular economy mode for construction and demolition waste in the building industry.

How can construction waste disposal organizations improve service and management efficiency?

Strengthen the establishment of data service platform, in order to better improve service and management efficiency. Construction waste disposal organizations should establish a comprehensive information platform for the management of construction waste disposal.

Sear Ca 19 Calo Unit 5 Test: Insides and outsides Name 2. At the beginning of 2010, a landfill contained 1400 tons of solid waste. The increasing function models the total amount of solid waste stored at the late Planners estrates will ...

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(a) Approximated solid waste at  $t = 1/4$ :  $W \approx 1511$  tons. (b)  $d^2W/dt^2 > 0$  at  $t = 1/4$ , indicating underestimation. (c) Particular solution:  $W - 300 = 1100e^{(1/25)t}$ , with initial condition ...

At the beginning of 2010, a landfill contained 1400 tons of solid waste. If the amount of solid waste increases by 5% each year, how much solid waste will the landfill ...

At the beginning of 2010, a landfill contained 1400 tons of solid waste. The increasing function  $W$  models the total amount of solid waste stored at the landfill. Planners estimate that  $W$  will satisfy the differential equation  $dW/dt = 1/25 (W - 300)$  ...

Since at the beginning of 2010 the landfill contained 1400 tons of solid waste, we conclude that  $W(0) = 1400$ . Then we can determine the ...

Warm-up: At the beginning of 2010, a landfill contained 1400 tons of solid waste. The increasing function  $W$  models the total amount of solid waste stored at the landfill. ...

As pointed out by Wu and Shen (2012), the average treatment rate of construction waste in most cities in China is between 3% and 10%. In the case of Beijing, about 40 million ...

Mathematics document from Rancho High School, 8 pages, AP® CALCULUS AB 2011 SCORING GUIDELINES Question 5 At the beginning of 2010, a landfill contained 1400 tons of ...

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PART A Use the line tangent to the graph of  $W$  at  $t = 0$  to approximate the amount of solid waste that the landfill contains at the end of the first 3 months of 2010 (time  $t = 0.25$ ;) The line tangent to ...

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