2013 AB 2

Q1
$$6'(t) = -\frac{48 \sin(\frac{25}{15})}{9t}$$
 $G'(5) = \frac{-\frac{43 \sin(\frac{25}{15})}{98}}{98} - \frac{24.585}{98}$

At $t = 5$ hours, the rate at which conpresents graves the processing plant is increased at a rate per hour per hour

At t=5 hours, the rate at which empressed graves arrive on the processing plant is increase at a rute of 24.588

c) 6(t) 6(b) = 98.141 2 100 At time 6.5, the rate at which improved gravel is arrived is less that the rest at whim it is being pered, more, theren of upcorers you ut the part is decrenty at time = 5,

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b)
$$R(3) - D(3) = -0.3136 < 0$$

Since R(3)-D(3) <0, the ament of water in the pipe is decreasing at to 3 hos.

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2013 AB 1 a) 5300 (16) dt= 270 people b) at to 300, much one so people Booke Ele House C) 300+ 80 - 414.286 414.2855 a) 20+ 5, ((x) dx-0.76 r(6):0.7 =0 6 = 33.011, 166.575 91 6= BB.0715 There are 3-253 perce Minimum 6: 33.013 trun 4 prus are in lily