DO NOW
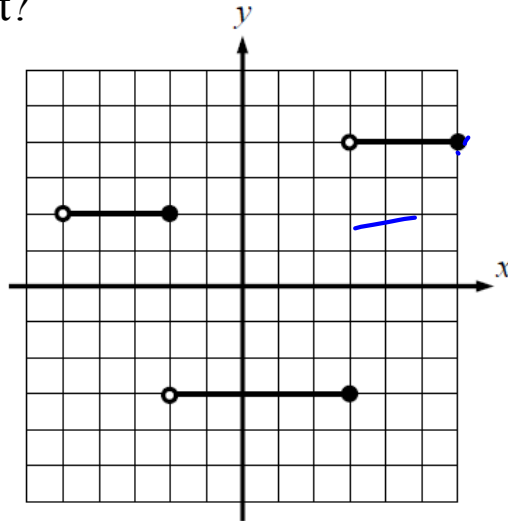
The step function $g(x)$ is shown on the grid below.

Jim states that the range of this function is $-3 \le y \le 4$.
Is he correct? Why or why not?
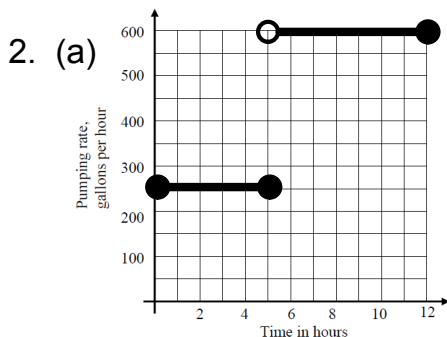
$R = \{-3, 2, 5\}$

Domain $(-5, 6]$

$-5 < x \le 6$

Jan 26-12:07 AM

HW ANSWERS

1. (a) It is a step function because you pay a constant amount for each hour or part of an hour of parking

   (b) 3 + 3 + 3 + 3 + 3 + 3 OR 3(6) = $18

   (c) you will hit the maximum after 10 hours

2. (a)

   (b) 250(5) + 600(7) = 5,450 gallons

   (c) 8,250 - 250(5)
       7,000 gallons

   (d) No because 8,250 - 5,450 = 2,800 gallons so there will be more than 2,000 gallons left in the reservoir

Jan 12-7:28 AM

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