

## Challenge Problem #10

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Challenge problems are worth 30 points each. 6 points will be earned for the correct answer. This includes using **appropriate units**. 12 points will be earned by **showing the mathematical process** used in getting the answer. The last 12 points will be earned by **writing a complete explanation** of the reasoning used to solve the problem. Good luck.

A cylindrical tank is  $\frac{1}{3}$  full of water. If 5 more liters of water are added, then the tank will be  $\frac{1}{2}$  full. How much water will the tank hold when it is full?

