

(7%) Problem 4: The pump in a water tower lifts water with a density of $\rho_w = 1.00 \text{ kg/liter}$ from a filtered pool at the bottom of the tower up $h_T = 33 \text{ m}$ to the top of the tower. The water begins at rest in the pool and comes to rest at the top of the tower. The pump is 100% efficient in lifting the water, and it lifts a volume of $V_w = 1.8 \text{ liters}$ of water up the tower every second. The water tower sits on a hill that is $T_s = 25 \text{ m}$ above sea level. Let gravitational potential energy be zero at ground level.

33% Part (a) Calculate the power, P_p in Watts, of the pump.

$$P_p = 10^{21}$$

$$P_p = 1.000 \times 10^{20} \quad \text{X Attempts Remaining}$$

33% Part (b) If the pump runs for 2.6 hours, calculate the increase in the potential energy, ΔU_w in J, of the water in the tower.

$$\Delta U_w = 532$$

sin()	cos()	tan()	π	(	)	7	8	9	MODE
cotan()	asin()	acos()	E	10 ^x		4	5	6	—
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Hint

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Hints: 13% deduction per hint. Hints remaining: 1

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33% Part (c) The water tower, when full, holds 10^6 liters of water. Calculate the gravitational potential energy of the water, U_w in J, of a full water tower relative to sea level.

$$U_w = 106.0 \quad \text{X Attempts Remaining}$$

Grade Summary

Deductions: 0%

Potential: 83%

Submissions

Attempts remaining: 2

(1.5% per attempt)

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1

(1%)

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