

Let V be the volume of the first tank.

$$\frac{V}{2}; \frac{V}{4}; \frac{V}{8}; \dots$$

$$S_{19} = \frac{\frac{V}{2} \left[1 - \left(\frac{1}{2} \right)^{19} \right]}{1 - \frac{1}{2}}$$

$$= \frac{524287}{524288} V$$

$$= 0.9999980927 V$$

$$< V$$

Yes, the water will fill the first tank without spilling over.

OR

Let V be the volume of the first tank.

$$\frac{V}{2}; \frac{V}{4}; \frac{V}{8}; \dots$$

$$S_{19} = \frac{\frac{V}{2} \left[1 - \left(\frac{1}{2} \right)^{19} \right]}{1 - \frac{1}{2}}$$

$$= V \left[1 - \left(\frac{1}{2} \right)^{19} \right]$$

$$< V \cdot 1$$

$$= V$$

Yes, the water will fill the first tank without spilling over.

OR

Let V be the volume of the first tank.

$$\frac{V}{2}; \frac{V}{4}; \frac{V}{8}; \dots$$

$$S_{\infty} = \frac{\frac{V}{2}}{1 - \frac{1}{2}}$$

$$= V$$

Since the first tank will hold the water from infinitely many tanks without spilling over, certainly:

Yes, the first tank will hold the water from the other 19 tanks without spilling over.

OR

If the tanks are emptied one by one, starting from the second, each tank will fill only half the remaining space, so the first tank can hold all the water from the other 19 tanks.

Note: If candidate lets the volume of the first tank be a specific value (instead of a variable) and his/her argument follows correctly, award 4/4 marks

Note: If candidate answers 'Yes' only with no justification: 1/4 marks

$$\checkmark \frac{V}{2}$$

✓ substitute into correct formula

✓ answer

✓ conclusion

(4)

$$\checkmark \frac{V}{2}$$

✓ substitute into correct formula

✓ observes that

$$\left[1 - \left(\frac{1}{2} \right)^{19} \right] < 1$$

✓ conclusion

(4)

$$\checkmark \frac{V}{2}$$

✓ substitute into correct formula

✓✓ correct argument

(4)

✓ Yes (explicit or understood from the argument.)

✓✓✓ argument

(4)

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A Loxley



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