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Short Report 0/5 (all questions unanswered)

Digital to Analogue Conversion

1

Which of these statements are true of DAC resolution? Choose all the right answers.

- ☐ It is entirely dependent on the minimum output voltage.
- ☐ It depends on the maximum output voltage and the number of DAC inputs.
- ☐ It is the smallest output voltage change that can occur for a change in the digital input.
- ☐ It is equal to the average output voltage across a range of input voltages.

2

What is the resolution of an 8-bit DAC with a maximum output voltage of 12 V? Give your answer in millivolts.

(Enter your answer as a number and press return)

3

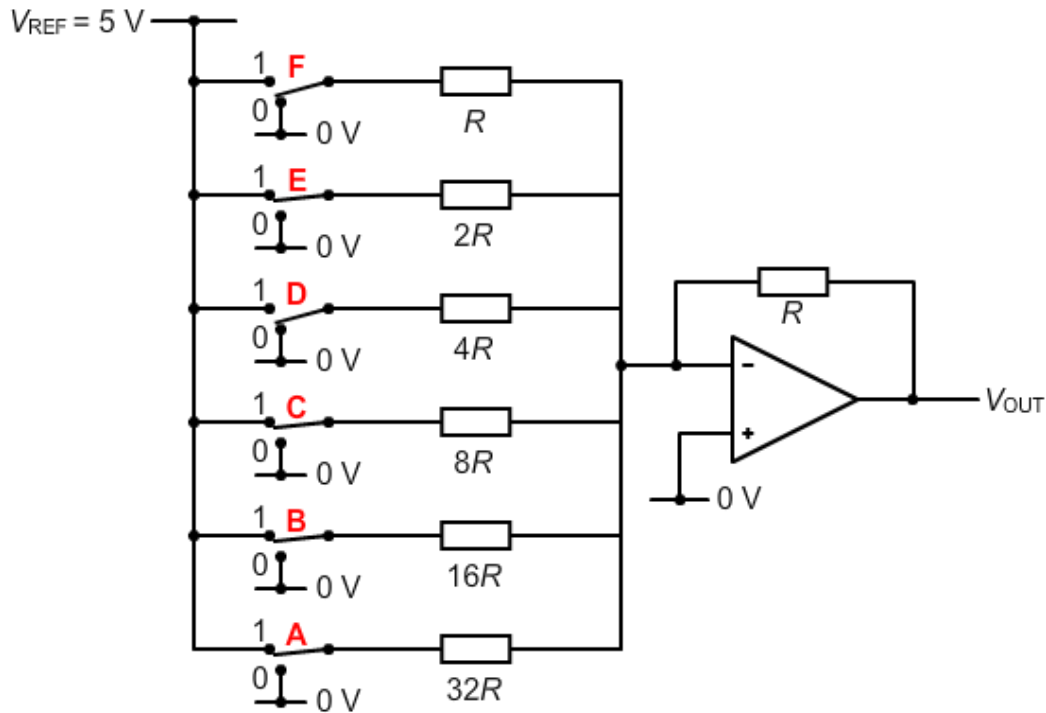
What happens to the accuracy of a binary weighted DAC as the number of inputs increases?

- ☐ It becomes more accurate
- ☐ It becomes less accurate
- ☐ Accuracy is not affected

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- 4 What is the output voltage for this binary weighted DAC when the inputs are set to the logic levels as shown in the diagram? Give your answer in volts.


 V (Enter your answer as a number and press return)

- 5 What is the advantage of an R-2R ladder DAC over a binary weighted DAC?

- ☒ It provides a positive output voltage
- ☐ It uses fewer resistors
- ☐ It does not require a large range of resistor values
- ☐ It has a larger resolution