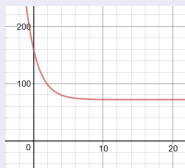# Exponential Functions

Question

Which of the following descriptions could correspond to the graph shown below?

- **a** A cup of hot coffee with initial temperature $160°F$ cools to a surrounding temperature of $72°F$ in 10 minutes.
- **b** A printer was purchased for \$160 and depreciates in value by \$72 per year.
- **c** A train is moving at a constant rate of 160 km/hr for 10 minutes, then slows to 72 km/hr.
- **d** A pool filled with 160 gallons of water begins to drain slowly, then the water quickly drains until it reaches 72 gallons.

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