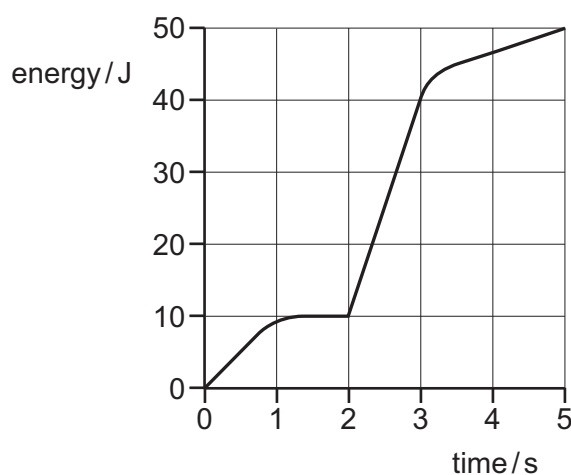


- 19 An electrical generator is started at time zero. The total electrical energy generated during the first 5 seconds is shown in the graph.



What is the maximum electrical power generated at any instant during these first 5 seconds?

- A** 10 W **B** 13 W **C** 30 W **D** 50 W
- 20 Gold has a density of 19.3 g cm^{-3} .

The volume occupied by a single atom of gold may be considered to be a cube with sides of length $2.6 \times 10^{-8} \text{ cm}$.

What is the mass of a gold atom?

- A** $3.4 \times 10^{-25} \text{ g}$
B $3.4 \times 10^{-22} \text{ g}$
C $1.3 \times 10^{-17} \text{ g}$
D $1.3 \times 10^{-14} \text{ g}$

Space for working