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**Q 2. (+)**



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**Q 3.**





**Q 4. (+)**





**Q5.** A sample consisting of 1.0 mol CaCO3 (s) was heated to 800 °C, when it decomposed. The heating was carried out in a container fitted with a piston that was initially resting on the solid. Calculate the work done during complete decomposition at 1.0 atm. What work would be done if instead of having a piston the container was open to the atmosphere?

**Answer**









