



Figure 1 is a schematic diagram of a four-stage gas turbine engine. The engine is represented by four rectangular blocks connected in series. Each block contains a compressor (left) and a turbine (right). The first stage has a compressor pressure ratio of 5.4 and a turbine inlet temperature of 6.3. The second stage has a compressor pressure ratio of 5.4 and a turbine inlet temperature of 7.8. The third stage has a compressor pressure ratio of 5.4 and a turbine inlet temperature of 6.15. The fourth stage has a compressor pressure ratio of 2.1 and a turbine inlet temperature of 6.4. The overall pressure ratio is 1/47, and the overall turbine inlet temperature is 1/33.2. The diagram also shows the inlet and outlet air streams with arrows indicating flow direction.

Architectural floor plan showing room dimensions and layout. The plan includes a staircase, several rooms, and a central corridor system. Dimensions are provided for room areas and widths.

Room dimensions (Area):

- Top left room: 5.7
- Room below top left: $\frac{1}{17.1}$
- Room below $\frac{1}{17.1}$: 16.0
- Room below 16.0: $\frac{1}{16.0}$
- Room below $\frac{1}{16.0}$: 5.7
- Room below 5.7: $\frac{1}{15.7}$
- Room below $\frac{1}{15.7}$: 5.7
- Room to the right of top left: 1.3
- Room below 1.3: 6.2
- Room below 6.2: $\frac{1}{20.1}$
- Room below $\frac{1}{20.1}$: 3.15
- Room below 3.15: 2.8
- Room below 2.8: 3.8
- Room below 3.8: 2.8
- Room below 2.8: 2.75
- Room below 2.75: 2.75

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