The temperature in an office is controlled by an electronic thermostat. The temperatures vary according to the sinusoidal function:

$$y = 19 + 6\sin\left(\frac{\pi}{12}(x - 11)\right)$$

where *y* is the temperature (ºC) and *x* is the time in hours past midnight.

- What is the temperature in the office at 9 A.M. when employees come to work?

- What are the maximum and minimum temperatures in the office?