1–36 The temperature of a system rises by 130°C during a heating process. Express this rise in temperature in kelvins.

$\Delta T(^\circ C) = 130^\circ C$

$\Delta T(K) = \Delta T(^\circ C)$

$\Delta T(K) = 130\ K$

1–47 A vacuum gage connected to a chamber reads 35 kPa at a location where the atmospheric pressure is 92 kPa. Determine the absolute pressure in the chamber.

$$P_{vac} = P_{atm} - P_{abs}$$

$$P_{abs} = P_{atm} - P_{vac}$$

$$= 92 - 35 = 57 \text{ kPa}$$