

20. The Curie temperature for iron is 770°C . If x is the depth at which the temperature has this value, then $10^{\circ}\text{C} + (30^{\circ}\text{C}/\text{km})x = 770^{\circ}\text{C}$. Therefore,

$$x = \frac{770^{\circ}\text{C} - 10^{\circ}\text{C}}{30^{\circ}\text{C}/\text{km}} = 25 \text{ km} .$$