

Solutions

Each answer shows the steps, then the **result**.

2.1

- Weather is short-term conditions; climate is the long-term average

2.2

- Any two: rising temperatures, sea-level rise, extreme weather, shifting species

2.3

- It amplifies (increases) it

3.1 B

- absorb more sunlight

3.2

(a)

- Melting land ice and thermal expansion of warming seawater

(b)

- Thawing permafrost releases methane and CO₂, which cause more warming, which thaws more permafrost — a positive feedback

3.3

- Climate is a long-term average; a single cold day is weather, and short-term variation does not change the long-term warming trend