

Solutions

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

2.1

- $P = \frac{F}{A} = \frac{200}{0.50} = 400 \text{ Pa}$

2.2

- $P = \rho gh = 1000 \times 10 \times 5.0 = 5.0 \times 10^4 \text{ Pa}$

2.3

- it increases with depth

3.1 B

3.2 C

3.3

(a)

- $P = \rho gh = 1030 \times 10 \times 12 = 1.24 \times 10^5 \text{ Pa}$

(b)

- $\text{total} = 1.24 \times 10^5 + 1.0 \times 10^5 = 2.24 \times 10^5 \text{ Pa}$