

1. 910 $\frac{E}{\rho} = \frac{E-31}{3}$; $\frac{E}{\rho} = \frac{E-31}{3}$
 $F = 911$

2. 910 $\rho = 14000 \text{ kg/m}^3$; $\rho = \frac{35}{100}$
 $\rho_0 = 110$; 910 $\rho_0 = \rho_0 e^{-kz}$
 $\rho_0 = 110 \left(\frac{35}{100}\right)^z$
 $z = 60.71 \text{ g}$

3. 910 $Q = m \cdot c \cdot \Delta T$; $Q = 1000 \cdot 4182 \cdot (54 - 15)$
 $Q = 176 \text{ J}$

4. 910 $1 \text{ km} = 1000 \text{ m}$
 $1 \text{ km} = 1000 \text{ m}$

5. 910 $\ln(2A) = \ln(2A) - kt$
 $\ln(4052) = \ln(150) - kt$
 $kt = 0.959$

6. 910 $m = \frac{0.5 \text{ kg}}{1.4 \text{ kg}}$; $x = 1.4 \text{ kg}$
 $x = 1.4 \text{ kg}$

7. 910 $Q = m \cdot c \cdot \Delta T$; $Q = 5000 \cdot 4182 \cdot 15$
 $Q = 3.16 \text{ J}$

8. 910 $\ln A = \ln A_0 - kt$
 $\ln 55 = \ln 100 - kt$
 $kt = 0.559$

9. $\rho_0 = 100$; $k = 1$; $\rho_0 = 0$ | $c = 0.5 \text{ g/l}$; $V = 1 \text{ l}$
 $\rho_0 = \rho_0 + c \cdot (t - t_0)$ | $9 \text{ g} = 0.5 \cdot (t - 1)$
 $0 = 100 - 1 \cdot (t - 1)$
 $t = 101$
 $t = 101 \text{ min}$

1000 1
 $1. \rho = 1000 \text{ kg/m}^3 = 0.10 \text{ m}^3 \text{ s}^{-3}$
 $\rho = 9.8 \text{ kg/m}^3 = 0.098 \text{ m}^3 \text{ s}^{-3}$

2. $\rho = 1000 \text{ kg/m}^3 = 0.10 \text{ m}^3 \text{ s}^{-3}$
 $\rho = 9.8 \text{ kg/m}^3 = 0.098 \text{ m}^3 \text{ s}^{-3}$

3. $\rho = 1000 \text{ kg/m}^3 = 0.10 \text{ m}^3 \text{ s}^{-3}$
 $\rho = 9.8 \text{ kg/m}^3 = 0.098 \text{ m}^3 \text{ s}^{-3}$

4. $\rho = 1000 \text{ kg/m}^3 = 0.10 \text{ m}^3 \text{ s}^{-3}$
 $\rho = 9.8 \text{ kg/m}^3 = 0.098 \text{ m}^3 \text{ s}^{-3}$

5. $\rho = 1000 \text{ kg/m}^3 = 0.10 \text{ m}^3 \text{ s}^{-3}$
 $\rho = 9.8 \text{ kg/m}^3 = 0.098 \text{ m}^3 \text{ s}^{-3}$

6. 910 $\rho = \frac{0.5}{1.4}$; $\rho = \frac{0.5}{1.4}$
 $\rho = 0.357$

7. 910 $\rho = \frac{0.5}{1.4}$; $\rho = \frac{0.5}{1.4}$
 $\rho = 0.357$

8. $\rho = \frac{0.5}{1.4}$
 $\rho = 0.357$

9. 910 $\rho = \frac{0.5}{1.4}$; $\rho = \frac{0.5}{1.4}$
 $\rho = 0.357$