(1) [5] Determine an equation of the line containing the point $(2, -5)$ which is parallel to the line containing the points $(2, -9)$ and $(3, -10)$.

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{-10-(-9)}{3-2} = \frac{-1}{1} = -1$$

$$\therefore \quad y - y_0 = m(x - x_0)$$

$$y - (-5) = -1\,(x-2)$$

$$\boxed{y+5 = -(x-2)}$$

or $\boxed{y = -x-3}$

(2) [5] Determine the point of intersection of the following pair of lines:

$$① \quad 4x - 3y = 2$$
$$② \quad x - 2y = 4$$

Using ② : $x = 4 + 2y$

$$\therefore ① \Rightarrow 4(4+2y) - 3y = 2$$
$$16 + 8y - 3y = 2$$
$$5y = -14$$
$$y = \frac{-14}{5}$$
$$\therefore x = 4 + 2\left(\frac{-14}{5}\right)$$
$$= 4 - \frac{28}{5}$$
$$= \frac{20-28}{5} = -\frac{8}{5}$$

$\boxed{\therefore \text{ point is } \left(-\frac{8}{5}, \frac{-14}{5}\right)}$

(3) [5] Items are produced at a cost \$0.65 per item and sell for \$0.90 per item. The daily operational overhead is \$320. Determine the number of items which must be produced and sold each day in order to break even.

Let x = number of items produced each day.

$C = 320 + 0.65x$

$R = 0.90x$.

$C = R$

$320 + 0.65x = 0.90x$

$0.25x = 320$

$x = \frac{320}{0.25} = 1280.$

$\therefore$ 1280 items must be produced to break even.