(2)
$$i3h^{\frac{3}{2}} P_{o}(x) = 1$$
, $P_{o}(x) = x$, $P_{o}(x) = \frac{1}{2}(3x^{2} - 1)$ $EP = 7$

2. (1)
$$\forall^{2}G(\vec{r},\vec{v_{0}}) = -\delta(\vec{r}-\vec{r_{0}})$$

 $G(\vec{r},\vec{r_{0}})|_{y=0} = 0$
 $G(\vec{r},\vec{r_{0}})|_{z=0} = 0$

Z,
$$\begin{cases} \frac{\partial u}{\partial t} - a^2 \frac{\partial^2 u}{\partial x^2} = D & (0 < x < l, t > 0) \\ \frac{\partial u}{\partial x}|_{x=0} = 0, & \frac{\partial u}{\partial x}|_{x=1} = 2 & (t \ge 0) \end{cases}$$

$$|u|_{t=0} = P(x) \qquad (0 < x \le l)$$

W(x,t)= Mx,t)+ 毫x² 先齐坎引也, 后用本征函数展开法