```
\int_{D} u(x) \overline{v(x)} dx, ||u||_{L^{2}(D)} = <
     J_D u(u) = 0
u, u > 1/2
\vdots
0
H^d(D)
  d(D) = \{u(x) : u \in L^2(D), || \le d\}, 1, 2
d \in L^1(D)
d \in L^1(D)
         ||u||_{H^1(D)} = (||\phi||_{L^2(D)}^2 + ||u||_{L^2(D)}^2 + ||\phi||_{L^2(D)}^2 + ||\phi||_{L^2(
        d_D^{-2} \|\phi\|_{L^2(D)}^2)^{1/2}, D
     \stackrel{\widetilde{D}}{H^{1/2}}(_{D})
      \begin{array}{l} \infty, |v|_{\frac{1}{2}, \mathcal{D}} < \\ \infty, |v|_{\frac{1}{2}, \mathcal{D}} < \\ \infty\}, |v|_{\frac{1}{2}, \mathcal{D}} = \end{array} 
   \left( \int_{\mathcal{D}} \int_{\mathcal{D}} \frac{\frac{|v(x) - v(y)|^2}{|x - y|^2} ds(x) ds(y) \right)^{1/2} .^{1/2} (D) 
 ||v||_{H^{1/2}(D)} = 
 (J^{-1}_{11...12})^{1/2} 
         \begin{aligned} &\|v\|_{H^{1/2}(D)}^{H^{1/2}(D)} - \\ &(d_D^{-1}\|v\|_{L^2(D)}^2 + \\ &|v|_{\frac{1}{2},\underline{D}}^2)^{1/2}. [?, corollary 3.1] D Lipschitz \phi \in \\ &\int_{1}^{1} (D)^2 \end{aligned} 
C^{1}(\bar{D})^{2}
d_{D}
C > 0
\|\phi\|_{H^{1/2}(D)} + \|\sigma(\phi)\nu\|_{H^{-1/2}(D)} \le C \max_{x \in \bar{D}}(|\phi(x)| + d_{D}|\phi(x)|).
L^{2,s}(\Omega)
^{2,s}() = \{v \in L^{2}_{loc}() : (1 + |x|^{2})^{s/2}v \in \mathbb{C}^{1}(D)
        |x|^{2})^{s/2}v \in L^{2}()\}, ||v||_{L^{2,s}()} =
     v(x): v(x): v(x) \in L^{2,s}(), \nabla v(x) \in L^{2,s}()\}, ||v||_{H^{1,s}()} = 0
        (\|v\|_{L^{2,s}}^2 + \|v\|_{L^{2,s}}^2 + \|v\|_{L^{2
   \begin{array}{l} (\|v\|_{L^{2,s}(}^{2} + \|\nabla v\|_{L^{2,s}()}^{2})^{1/2}. \\ X \\ X_{2} \\ X \\ X \\ X, X^{2}, X^{2 \times 2} \\ X \\ X, X^{2}, X^{2 \times 2} \\ \|\cdot \\ \|_{X} \\ c \in [a,b] \\ f(x) \\ 0 \\ f(x) \\ (a,c-) \end{array} 
              (a, c-)
```

(c+,b)