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一、函数定义
y_{sin} = torch.sin(2 * torch.pi * x)
y_exp = torch.exp(x)
y_{log} = torch.log(x + 1)
y_x2 = x ** 2
y_{in} = y_{in} + y_{exp} - y_{log} - y_{x2}
二、数据采集
x = torch.linspace(0, 1, 100).unsqueeze(1) #(100, 1)
然后用上面五个函数即可
三、模型描述
class TwoLayersReluNN(nn.Module):
   def __init__(self, in_features, hidden_features, out_features):
      super(TwoLayersReluNN, self).__init__()
      self.fc1=nn.Linear(in_features,hidden_features)
      self.fc2=nn.Linear(hidden_features, out_features)
   def forward(self, x):
      x = F.relu(self.fc1(x))
      x = self.fc2(x)
      return x
model = TwoLayersReluNN(in_features=1, hidden_features=256, out_features=1)
model = TwoLayersReluNN(in_features=1, hidden_features=512, out_features=1)
输入层输出层维度为1
中间隐藏层维度 256 或者 512
四、拟合效果:
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