```
import numpy as np
import seaborn as sns
from sklearn.linear_model import LinearRegression
```

## ▼ 학습데이터 준비

```
# reshape 코드입력
X = np.arange(1,30,10).reshape(-1,1)
\#X = np.random.randint(1,30,10).reshape(-1,1)
y = (2*X+1)
Χ
 □→ array([[11],
           [7],
           [17],
           [ 1],
           [27],
           [21],
           [27],
           [ 1],
           [11],
           [4]])
У
     array([[15],
           [13],
           [13],
           [ 9],
           [33],
           [39],
           [3],
           [7],
           [23],
           [39]])
sns.regplot(x=X, y=y)
```

```
<matplotlib.axes._subplots.AxesSubplot at 0x7fbd19d6a750>
```

```
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```

## ▼ 모델의 선언 및 fit(학습)

```
| # 모델 선언(모델 객체 생성)
| model_Ir = LinearRegression()
| # 모델 확인
| model_Ir
| LinearRegression(copy_X=True, fit_intercept=True, n_jobs=None, normalize=False)
| # 모델 학습
| model_Ir.fit(X, y)
| LinearRegression(copy_X=True, fit_intercept=True, n_jobs=None, normalize=False)
```

## ▼ Predict(예측)