

In [13]:

```
# 연습문제 2 / 예제(6.2), p192
```

```
from scipy.stats import norm
```

```
prob = 1 - norm.cdf(-0.20)
```

```
print('남자의 퍼센트와 여자의 퍼센트가 10%를 넘을 확률 : {prob:.4f}')
```

남자의 퍼센트와 여자의 퍼센트가 10%를 넘을 확률 : 0.5793

In [14]:

```
# 연습문제 2 / 예제(6.2), p192 + 시각화
```

```
import matplotlib.pyplot as plt
```

```
import numpy as np
```

```
from scipy.stats import norm
```

```
x = np.linspace(-4, 4, 1000)
```

```
y = norm.pdf(x)
```

```
fig, ax = plt.subplots()
```

```
ax.plot(x, y)
```

```
x_fill = np.linspace(-0.20, 4, 1000)
```

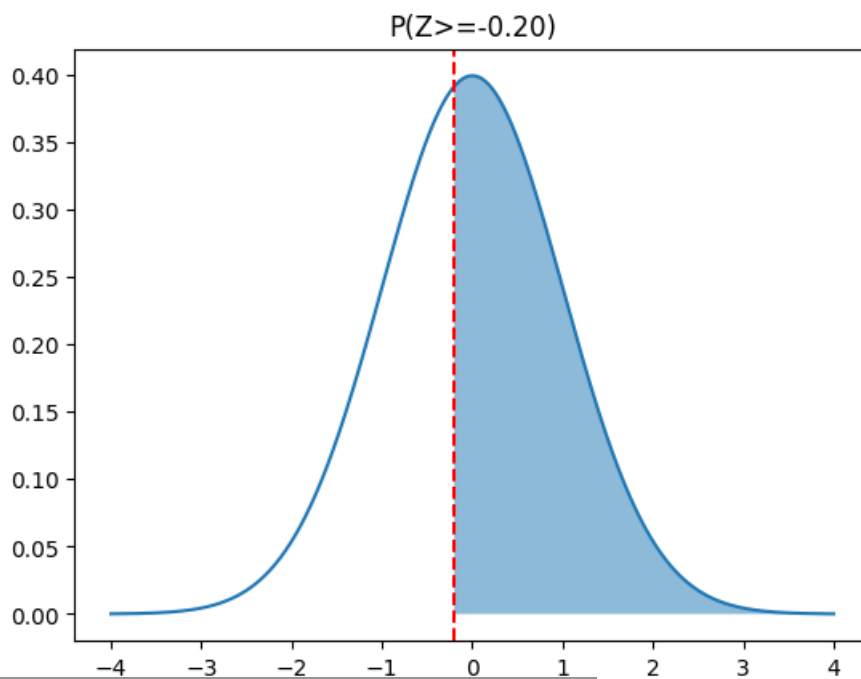
```
y_fill = norm.pdf(x_fill)
```

```
plt.axvline(-0.20, color='red', linestyle='--')
```

```
ax.fill_between(x_fill, y_fill, alpha=0.5)
```

```
plt.title("P(Z>=-0.20)")
```

```
plt.show()
```



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