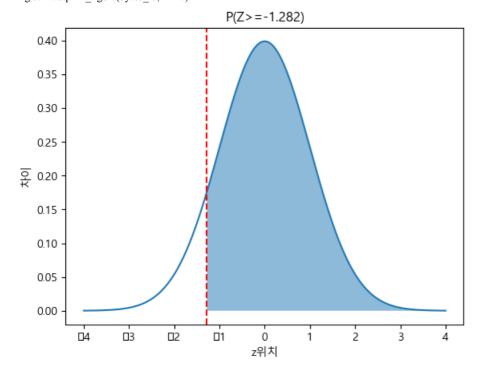
```
In [1]:
# 연습문제 3 / 예제(6.4), p193
from scipy.stats import norm
import math
n1 = 200
           #혼인한 커플
          # 혼인한 커플의 집 소유 비율
p1 = 0.43
n2 = 180
           # 독신
p2=0.19 #독신의 집소유 비율
mu=p1-p2 #두모집단의 차이
sd = math.sqrt(p1*(1-p1)/n1 + p2*(1-p2)/n2) # \Xi \mathcal{E} \mathcal{L} \bar{\mathcal{X}}
print(f'표준오차: {sd}'')
sc = norm.ppf(0.1, mu, sd) # 표준정규분포의 누적분포함수
print(f''퍼센트 차이가 몇 퍼센트보다 클 확률: {round((sc), 3)}'')
표준오차: 0.04561249828720194
퍼센트 차이가 몇 퍼센트보다 클 확률 : 0.182
In [26]:
# 연습문제 3 / 예제(6.4), p193 + 시각화
import matplotlib.pyplot as plt
import numpy as np
from scipy.stats import norm
plt.rc('font', family='Malgun Gothic')
mu=0#평균
sd = 1 # 표준편차
x = np.linspace(-4, 4, 1000)
pdf = norm.pdf(x, loc=mu, scale=sd)
plt.plot(x, pdf, label='PDF')
z = -1.282
plt.fill between(x[x>=z], pdf[x>=z], alpha=0.5)
plt.ylabel('차이')
plt.axvline(-1.282, color="red", linestyle="--")
plt.xlabel('z위치')
plt.title(fP(Z \ge \{z\})')
plt.show()
ent font.
```

C:\Users\starl\AppData\Roaming\Python\Python311\site-packages\IPython\core\pylabtools.py:152: UserWarning: Glyph 8722 (\N{MINUS SIGN}) missing from curr

fig.canvas.print\_figure(bytes\_io, \*\*kw)



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