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In [8]:
# 연습문제 7 / 예제(5.27), p177
from scipy.stats import norm
import numpy as np
import matplotlib.pyplot as plt

plt.rc('font', family='Malgun Gothic')

x = 155
mu = (250 * 0.6)
sigma = 7.746

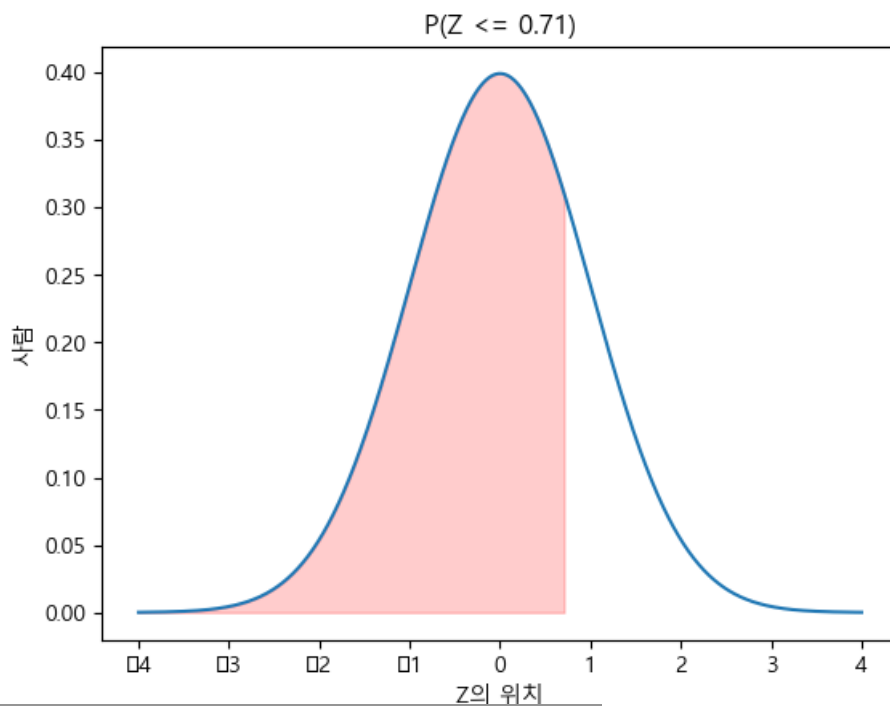
prob = norm.cdf(x + 0.5, mu, sigma)
print(f'예산삭감을 지지할 확률 : {round((prob), 4)}')

x = np.linspace(-4, 4, 1000)
y = norm.pdf(x)

fig, ax = plt.subplots()
ax.plot(x, y)
ax.fill_between(x, y, where=(x <= 0.71), color='red', alpha=0.2)
ax.set_xlabel('Z의 위치')
ax.set_ylabel('사람')
ax.set_title('P(Z <= 0.71)')

plt.show()
예산삭감을 지지할 확률 : 0.7612
C:\Users\star\AppData\Roaming\Python\Python311\site-packages\IPython\core\pylabtools.py:152: UserWarning: Glyph 8722 (\N{MINUS SIGN}) missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)

```



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