More Normal Calculations with z-scores

1. Find the area under the standard Normal curve for each situation:
   - $z < 1.72$
   - $z > 0.22$
   - $-1.3 < z < 1$

2. Find the area under the Normal curve $N(76,21)$ for the situation:
   - $50 < x < 80$

3. Find the $z$-score for each situation:
   - 19th percentile
     - Has 40% of observations above it

4. Find the two $z$-scores that capture the middle 60% of observations.

5. Find the $x$-value that represents the 35th percentile on the distribution given by $N(800,75)$. 