1. Determine the measure for each of the indicated angles and provide a reason for each.

2. Solve the following triangle.

3. Which standard deviation is more consistent? \( \sigma_1 = 8.6 \) or \( \sigma_2 = 14.3 \)? Explain how you know.

4. Draw a normal curve and label given that \( x = 42 \) and \( \sigma = 5 \). What percent of the data is between 37 and 52?
5. Graph the system

\[ \begin{align*}
  x + y &< 12 \\
  2x - 1 &> y \\
  2y &> -8
\end{align*} \]

Determine two different solutions from the graph. Verify algebraically.

6. Just by looking, tell me what you know about the graph of the following quadratic functions.

\[ \begin{align*}
  y &= 4x^2 + 3x - 5 \\
  y &= -(x - 4)(x + 1) \\
  y &= -(x + 6)^2 + 5
\end{align*} \]