Inconsistent Linear Systems (A)

Graph each system and identify the inconsistent system.

1.  
   \[y = \frac{5}{3}x + 1\]
   \[4x - y = 6\]
   
   Solution: \((___,___)\)

2.  
   \[y = \frac{4}{5}x + 5\]
   \[x + y = -4\]
   
   Solution: \((___,___)\)

3.  
   \[6x + 7y = 63\]
   \[y = -\frac{3}{7}x + 6\]
   
   Solution: \((___,___)\)

4.  
   \[y = -5\]
   \[y = 2\]
   
   Solution: \((___,___)\)
Inconsistent Linear Systems (A) Answers

Graph each system and identify the inconsistent system.

1. \[ y = \frac{5}{3}x + 1 \]
   \[ 4x - y = 6 \]
   Solution: (3,6)

2. \[ y = \frac{4}{5}x + 5 \]
   \[ x + y = -4 \]
   Solution: (-5,1)

3. \[ 6x + 7y = 63 \]
   \[ y = -\frac{3}{7}x + 6 \]
   Solution: (7,3)

4. \[ y = -5 \]
   \[ y = 2 \]
   Solution: No Solution (Inconsistent)