Solve:

1) \( x + 4 = 13 \)
   \[ x + 4 - 4 = 13 - 4 \]
   \[ x = 13 - 4 \]
   \[ x = 9 \]

2) \( x - 3 = 10 \)
   \[ x - 3 + 3 = 10 + 3 \]
   \[ x = 10 + 3 \]
   \[ x = 13 \]

3) \( a + 6 = 11 \)
   \[ a + 6 - 6 = 11 - 6 \]
   \[ a = 11 - 6 \]
   \[ a = 5 \]

4) \( b - 7 = -2 \)
   \[ b - 7 + 7 = -2 + 7 \]
   \[ b = -2 + 7 \]
   \[ b = 5 \]

5) \( 3x = 12 \)
   \[ \div 3 \]
   \[ x = 12 \div 3 \]
   \[ x = 4 \]

6) \( 4a = 16 \)
   \[ \div 4 \]
   \[ x = 16 \div 4 \]
   \[ x = 4 \]
7) \(2y = 14\)
\[\div 2 \quad \div 2\]
\[x = 14 \div 2\]
\[x = 7\]

8) \(3x + 4 = 16\)
\[3x + 4 - 4 = 16 - 4\]
\[3x = 12\]
\[\div 3 \quad \div 3\]
\[x = 12 \div 3\]
\[x = 4\]

9) \(2a - 7 = 19\)
\[2a - 7 + 7 = 19 + 7\]
\[2a = 26\]
\[\div 2 \quad \div 2\]
\[x = 26 \div 2\]
\[x = 13\]

10) \(3b + 3 = 9\)
\[3b + 3 - 3 = 9 - 3\]
\[3b = 6\]
\[\div 3 \quad \div 3\]
\[x = 2\]

11) \(4x + 4 = 2x + 8\)
\[4x - 2x + 4 = 2x - 2x + 8\]
\[2x + 4 = 8\]
\[2x + 4 - 4 = 8 - 4\]
\[2x = 4\]
\[\div 2 \quad \div 2\]
\[x = 2\]

In this question, you need to get all the x’s on the left hand side and all the numbers on the right hand side.

1st – To get the 2x over to the left, we take it away from both sides
2nd – To get the +4 on the right hand side, we take away 4 from each side
3rd – This leaves us with \(2x = 4\), which we divide by 2 to find our answers