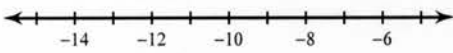


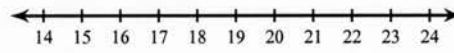
2-9a Inequalities (ver2)_hw

Solve each inequality and graph its solution.

1) $19 + x < 10$



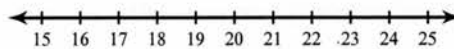
2) $m - -6 \leq 23$



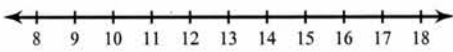
3) $r + -14 > -19$



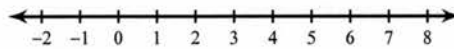
4) $\frac{x}{3} > \frac{20}{3}$



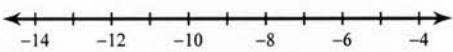
5) $30 \geq 2 + 2x$



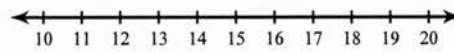
6) $-5 \leq \frac{n}{7} - 5$



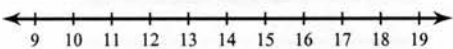
7) $6 \leq \frac{b}{2} + 9$



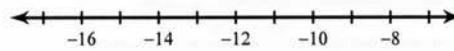
8) $7 \geq \frac{x-2}{2}$



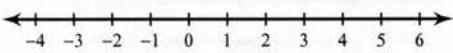
9) $1 < \frac{-5+x}{9}$



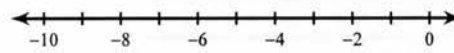
10) $-68 > 4(a-6)$



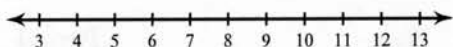
11) $2(r-4) \leq -3(-6-5r)$



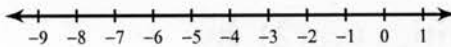
12) $2(x-3) > -(-3x+4)$



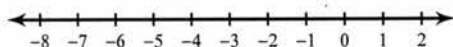
$$13) -3(x+5) + 4x < 2 - (x+5)$$



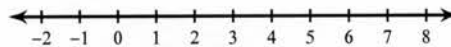
$$14) 6v + 4(v+2) \geq 1 - 3(-3v-1)$$



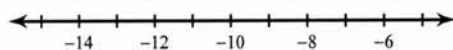
$$15) 5 + 3(v-6) > -2(2-3v)$$



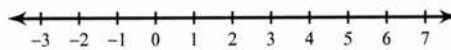
$$16) n - 6(n-4) > 2(5n-3)$$



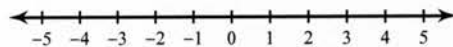
$$17) 4(4+x) \leq -3x - 2(-3x-2)$$



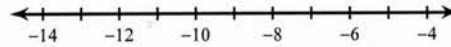
$$18) 4(n+2) > -2 + 6(-n+5)$$



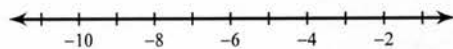
$$19) -(1+3m) > -6m - 2(5-3m)$$



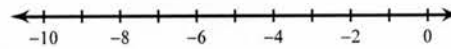
$$20) -3x - 5(x+6) > -2(1+2x)$$



$$21) -2(3x+5) + 2x \leq 6(x+5)$$



$$22) -(1+2a) - 2(-3-5a) < a - 4 + 6a + 4$$



Answers to 2-9a Inequalities (ver2)_hw

$$1) x < -9 : \text{Number line from -14 to -6 with tick marks every 2 units. An open circle is at -9, and the line is shaded to the left.} \leftarrow$$

$$3) r > -5 : \text{Number line from -10 to 0 with tick marks every 2 units. An open circle is at -5, and the line is shaded to the right.} \rightarrow$$

$$5) x \leq 14 : \text{Number line from 8 to 18 with tick marks every 2 units. A closed circle is at 14, and the line is shaded to the left.} \leftarrow$$

$$7) b \geq -6 : \text{Number line from -14 to -4 with tick marks every 2 units. A closed circle is at -6, and the line is shaded to the right.} \rightarrow$$

$$9) x > 14 : \text{Number line from 10 to 18 with tick marks every 2 units. An open circle is at 14, and the line is shaded to the right.} \rightarrow$$

$$11) r \geq -2 : \text{Number line from -4 to 6 with tick marks every 2 units. A closed circle is at -2, and the line is shaded to the right.} \rightarrow$$

$$13) x < 6 : \text{Number line from 4 to 12 with tick marks every 2 units. An open circle is at 6, and the line is shaded to the left.} \leftarrow$$

$$15) v < -3 : \text{Number line from -8 to 2 with tick marks every 2 units. An open circle is at -3, and the line is shaded to the left.} \leftarrow$$

$$17) x \leq -12 : \text{Number line from -14 to -6 with tick marks every 2 units. A closed circle is at -12, and the line is shaded to the left.} \leftarrow$$

$$19) m < 3 : \text{Number line from -4 to 4 with tick marks every 2 units. An open circle is at 3, and the line is shaded to the left.} \leftarrow$$

$$21) x \geq -4 : \text{Number line from -10 to -2 with tick marks every 2 units. A closed circle is at -4, and the line is shaded to the right.} \rightarrow$$

$$2) m \leq 17 : \text{Number line from 14 to 24 with tick marks every 2 units. A closed circle is at 17, and the line is shaded to the left.} \leftarrow$$

$$4) x > 20 : \text{Number line from 16 to 24 with tick marks every 2 units. An open circle is at 20, and the line is shaded to the right.} \rightarrow$$

$$6) n \geq 0 : \text{Number line from -2 to 8 with tick marks every 2 units. A closed circle is at 0, and the line is shaded to the right.} \rightarrow$$

$$8) x \leq 16 : \text{Number line from 10 to 20 with tick marks every 2 units. A closed circle is at 16, and the line is shaded to the left.} \leftarrow$$

$$10) a < -11 : \text{Number line from -16 to -8 with tick marks every 2 units. An open circle is at -11, and the line is shaded to the left.} \leftarrow$$

$$12) x < -2 : \text{Number line from -10 to 0 with tick marks every 2 units. An open circle is at -2, and the line is shaded to the left.} \leftarrow$$

$$14) v \geq -4 : \text{Number line from -8 to 0 with tick marks every 2 units. A closed circle is at -4, and the line is shaded to the right.} \rightarrow$$

$$16) n < 2 : \text{Number line from -2 to 8 with tick marks every 2 units. An open circle is at 2, and the line is shaded to the left.} \leftarrow$$

$$18) n > 2 : \text{Number line from -2 to 6 with tick marks every 2 units. An open circle is at 2, and the line is shaded to the right.} \rightarrow$$

$$20) x < -7 : \text{Number line from -14 to -4 with tick marks every 2 units. An open circle is at -7, and the line is shaded to the left.} \leftarrow$$

$$22) a < -5 : \text{Number line from -10 to 0 with tick marks every 2 units. An open circle is at -5, and the line is shaded to the left.} \leftarrow$$