Intermediate Algebra Skill

Solving Linear Inequalities, Using Multiplication (Division) Property; Negative Integer Coefficients

Solve the linear inequalities:

1) $-9t < -81$

2) $-8x \geq 24$

3) $-2z \leq 15$

4) $-3y > -12$

5) $-4w < 52$

6) $-5s \leq 135$

7) $-6a > -72$

8) $-7b \geq 78$

9) $-8c < 40$

10) $-9x \geq 126$

Answers to Solving Linear Inequalities, Using Multiplication (Division) Property; Negative Integer Coefficients

1) $\{t|t>9\};(9,\infty)$

2) $\{x|x\le-3\};(-\infty,-3]$

3) $\left\{z|z\ge-\dfrac{15}{2}\right\};\left[-\dfrac{15}{2},\infty\right)$

4) $\{y|y<4\};(-\infty,4)$

5) $\{w|w>-13\};(-13,\infty)$

6) $\{s|s\ge-27\};[-27,\infty)$

7) $\{a|a<12\};(-\infty,12)$

8) $\left\{b|b\le-\dfrac{78}{7}\right\};\left(-\infty,-\dfrac{78}{7}\right]$

9) $\{c|c>-5\};(-5,\infty)$

10) $\{x|x\le-14\};(-\infty,-14]$