

The Review of Domain/Range and Systems

Let's review some graphs with Domain

Algebraic: $-3 \leq x < 3$
 Set: $\{x \mid -3 \leq x < 3\}$
 Interval: $[-3, 3)$

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Domain

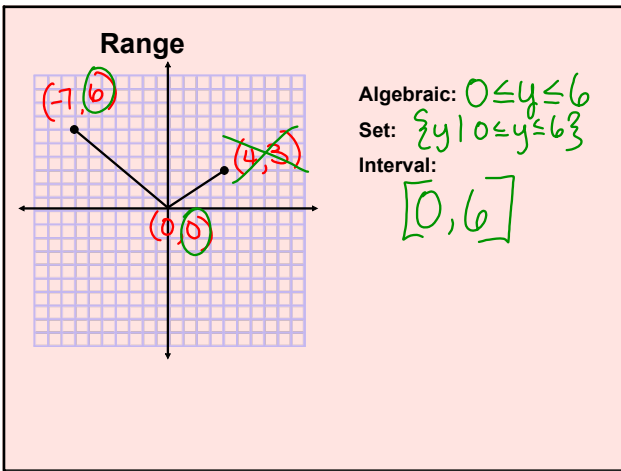
Algebraic: $x \geq -2$
 Set: $\{x \mid x \geq -2\}$
 Interval: $[-2, \infty)$

Now find the Range.

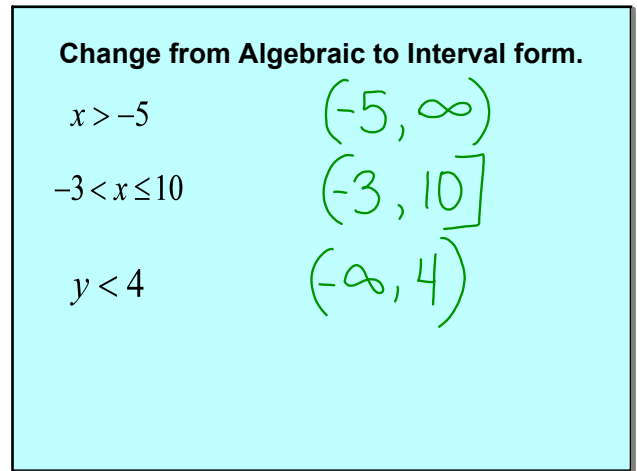
Algebraic: $-4 \leq y < 3$
 Set: $\{y \mid -4 \leq y < 3\}$
 Interval: $[-4, 3)$

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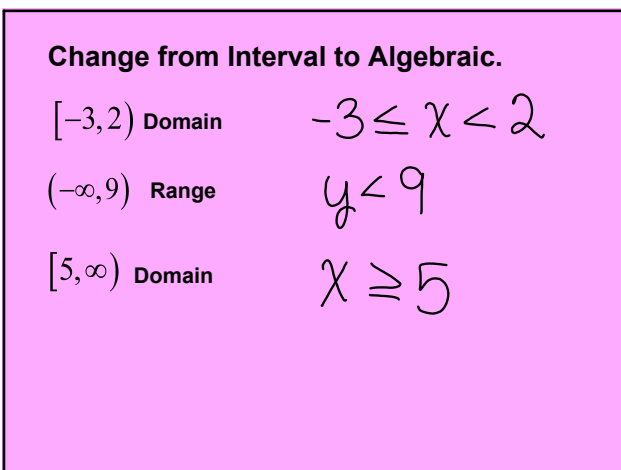
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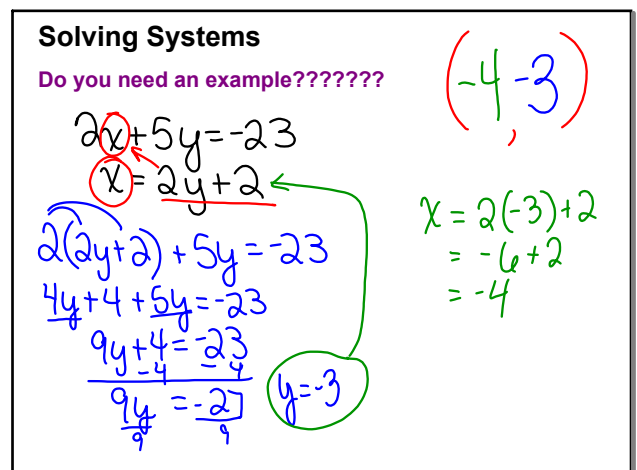
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$$\begin{array}{l}
 4(-3x - 5y = 17) \\
 3(4x - 6y = 28)
 \end{array}
 \rightarrow
 \begin{array}{l}
 -12x - 20y = 68 \\
 12x - 18y = 84
 \end{array}$$

$$\begin{array}{r}
 -38y = 152 \\
 \underline{-38} \quad \underline{-38} \\
 y = -4
 \end{array}$$

$(1, -4)$

$$\begin{array}{l}
 -3x - 5(-4) = 17 \\
 -3x + 20 = 17 \\
 \underline{-20} \quad \underline{-20} \\
 -3x = -3 \\
 \underline{-3} \quad \underline{-3} \\
 x = 1
 \end{array}$$

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Questions or Comments

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Assignment
Domain/Range
and Systems
Worksheet

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