Linear Unit Part 1: Solving Equations

| Solving 1 step equations with addition and subtraction |  | $x+9=12$ |  | $x-3=11$ |
| :---: | :---: | :---: | :---: | :---: |
|  | C) | $-12=12+x$ | D) | $-15=-13+x$ |







| Evaluate the <br> function for the <br> given value of $x$ | 1. If $\mathrm{x}=2$ find the value of $\mathrm{f}(\mathrm{x})=3 \mathrm{x}+2$ <br> 2. If $\mathrm{x}=-3$ find the value of $\mathrm{f}(\mathrm{x})=-2 \mathrm{x}-4$ <br> solve for x given the <br> value of $\mathrm{f}(\mathrm{x})$ |
| :--- | :--- |
| 3. If $\mathrm{f}(\mathrm{x})=4$ find the value of x if $\mathrm{f}(\mathrm{x})=5 \mathrm{x}-3$ |  |
| 4. If $\mathrm{f}(\mathrm{x})=-5$ find the value of x if $\mathrm{f}(\mathrm{x})=-2 \mathrm{x}+11$ |  |
| 5. If $\mathrm{f}(\mathrm{x})=2$ find the value of x if $f(x)=\frac{x}{3}-4$ |  |



| Multi-Step Equations with distributive property and like terms on the same side(no negative coefficients) | 1. $4 \mathrm{x}+7(\mathrm{x}-3)=34$ 2. $2 \mathrm{x}+3(2 \mathrm{x}-4)=44$ |
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| Multi-Step Equations with <br> distributive property and <br> like terms on the same <br> side(negative coefficients) |
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| Multi-Step Equations <br> anything goes | 1. $\quad 4 x-3+2 x=8 x-3-x$ |  |
| :--- | :--- | :--- |
|  | $8 y+6-12 y=2 y+9-3 y$ |  |



