**PC12 LG 7A (Formative Assessment 2019)**

**Marking Teacher: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

 **Student #: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**1. Given** $f\left(x\right)=4x^{2}+3x-1 and g\left(x\right)=6x+2$**, perform the indicated operation.**

$a) \left(f+g\right)\left(x\right)$$b) \left(f-g\right)\left(x\right)$

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**2. Given** $f\left(x\right)=5x-6 and g\left(x\right)=x^{2}-5x+6$**, perform the indicated operation.**

 $a) \left(g+f\right)\left(2\right)$$b) \left(f-g\right)\left(-1\right)$

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**3. Given** $f\left(x\right)=6x^{2}-x-12 and g\left(x\right)=2x-3$**, perform the indicated operation.**

 $a) \left(fg\right)\left(x\right)$ ***b)***$ \left(\frac{f}{g}\right)\left(x\right)$

**4. Given** $f\left(x\right)=9-x , g\left(x\right)=x^{2}+x+x, and h\left(x\right)=x-2$**, perform the indicated operation.**

 $a) \left(f∘g\right)\left(x\right)$$b) g\left(f(x)\right)$$c) h\left(f(-6)\right)$

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**5. For each given graph of *f(x)* and *g(x),* perform the indicated operation.**

$a) \left(f+g\right)\left(1\right) $$b) \left(g-f\right)\left(4\right)$

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**6. For each graph of *f(x)* and *g(x),* determine the equation and state the domain & range for:**

 $a) \left(fg\right)\left(x\right) $$b) \left(\frac{f}{g}\right)\left(x\right)$

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| Directions: |  | **See me about this** |  | **Move on to next guide** |  | **Review and redo** |

**PC12 LG 7B (Formative Assessment)**

**Marking Teacher: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

 **Student #: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**1. Given** $f\left(x\right)=4x^{2}-3x-1 and g\left(x\right)=2x^{2}-3$**, perform the indicated operation.**

$a) \left(f+g\right)\left(x\right)$$b) \left(g-f\right)\left(x\right)$

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**2. Given** $f\left(x\right)=x-1 and g\left(x\right)=4x^{2}-x+6$**, perform the indicated operation.**

 $a) \left(g+f\right)\left(-2\right)$$b) \left(f-g\right)\left(4\right)$

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**3. Given** $f\left(x\right)=x^{2}+x-6 and g\left(x\right)=x-2$**, perform the indicated operation.**

 $a) \left(fg\right)\left(x\right)$ ***b)***$ \left(\frac{f}{g}\right)\left(x\right)$

**4. Given** $f\left(x\right)=9-x , g\left(x\right)=x^{2}+x+x, and h\left(x\right)=x-2$**, perform the indicated operation.**

 $a) \left(g∘f\right)\left(x\right)$$b) f\left(f(x)\right)$$c) h\left(g(-2)\right)$

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**5. For each given graph of *f(x)* and *g(x),* perform the indicated operation.**

$a) \left(f-g\right)\left(0\right) $$b) \left(g+f\right)\left(2\right)$



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**6. For each graph of *f(x)* and *g(x),* determine the equation and state the domain & range for:**

 $a) \left(fg\right)\left(x\right) $$b) \left(\frac{g}{f}\right)\left(x\right)$



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| Directions: |  | **See me about this** |  | **Move on to next guide** |  | **Review and redo** |