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 Date: 3-3-21 Bell: _____

Unit 5: Polynomial Functions

Homework 7: Operations on Functions
 & Compositions of Functions



Directions: Given $f(x) = 2x^2 - 9x + 2$, $g(x) = 1 - 6x$, and $h(x) = x^2 - 4$, find each function.
 Indicate any restrictions in the domain.

1. $(f - g)(x) = f(x) - g(x)$
 $(2x^2 - 9x + 2) - (1 - 6x)$
 $2x^2 - 9x + 2 - 1 + 6x$

$(f - g)(x) = 2x^2 - 3x + 1$

2. $\left(\frac{f}{h}\right)(x)$

3. $(g + f)(x)$
 $1 - 6x + 2x^2 - 9x + 2$
 $2x^2 - 15x + 3$

4. $(f \cdot h)(x)$
 $(2x^2 - 9x + 2)(x^2 - 4)$
 $2x^4 - 9x^3 + 2x^2 - 8x^2 + 36x - 8$

$(f \cdot h)(x) = 2x^4 - 9x^3 - 6x^2 + 36x - 8$

5. $\left(\frac{h}{g}\right)(x) = \frac{x^2 - 4}{1 - 6x} = \frac{x^2 - 4}{6x + 1} = \frac{1}{3} + \frac{143}{36(-6x + 1)}$
 $= -\frac{x}{6} - \frac{1}{36} + \frac{143}{36(-6x + 1)}$

$-\frac{x}{6} - \frac{1}{36} - \frac{143}{36(-6x + 1)}$

6. $(g \cdot h)(x) = (1 - 6x)(x^2 - 4)$
 $1 \cdot x^2 + 1 \cdot (-4) + (-6x) \cdot x^2 + (-6x) \cdot (-4)$
 $1 \cdot x^2 - 1 \cdot 4 - 6x^3 + 24x$
 $-6x^3 + x^2 + 24x - 4$

7. $(f - g)(x) = (2x^2 - 9x + 2)(1 - 6x)$
 $2x^2 - 9x + 2 \cdot 1 - 6x \cdot 2x^2 - 6x \cdot (-9x) - 6x \cdot 2$
 $2x^2 - 9x + 2 - 12x^3 + 54x^2 - 12x$
 $-12x^3 + 56x^2 - 21x + 2$

8. $(h - f)(x)$

$2 - 9 + 54x + 2$

$72x^2 + 30x - 5$

Directions: Using the functions above, find each function value.

9. $(h - g)(-7)$

10. $(f \cdot h)(2)$

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