Operations on Functions: Adding and Subtracting Functions

1

Find $(g-h)(x)$ when $g(x)=x^2-7x+11$ and $h(x)=x^3+7x+1$.

$(g-h)(x)=$

A) $x^3-x^2+14x-10$

B) $-x^3+x^2-14x+10$

C) $-x^3+x^2+10$

D) $-14x+10$

2

Find $(g-h)(x)$ when $g(x)=x^3+2x^2-8x$ and $h(x)=-3x^3+6x^2+5x-9$.

$(g-h)(x)=$

A) $4x^3-4x^2-13x-9$

B) $-2x^3+8x^2-3x-9$

C) $4x^3-4x^2-13x+9$

D) $-4x^3+4x^2+13x-9$

3

If $g(x)=3x^2+5$ and $h(x)=x^2-1$, find $(g-h)(x)$.

$(g-h)(x)=$

A) $8x^2+6$

B) $2x^2+4$

C) $2x^2+6$

D) $8x^2+4$