Name:
Period:
Date:

12/18/12 Classwork

Simplify

① $\frac{x^2+2x-3}{x^2+9x+14} \cdot \frac{x+7}{x-1}$

② $\frac{x^2-x-30}{x^2+x-56} \div \frac{x^2+2x-15}{x-7}$

③ $\frac{x+5}{x} + \frac{x+3}{x-2}$

④ $\frac{x-1}{x+2} - \frac{x+5}{x}$

⑤ find $f^{-1}(x)$ if $f(x) = \frac{2}{5}x + 6$

⑥ find $h^{-1}(x)$ if $h(x) = \frac{3}{7}x - 6$

⑦ find $(h \circ k)(x)$ if $h(x) = 3x^2 - x + 4$ and $k(x) = x + 2$