

Inverse H.W.

(33) $f(x) = 6 - x$

$y = 6 - x$

$x = 6 - y$

$y = -x + 6$

(38) $f(x) = \frac{x-2}{x+2}$

$y = \frac{x-2}{x+2}$

$x = \frac{y-2}{y+2}$

$x(y+2) = y-2$

$xy + 2x = y - 2$

$e^{-x}e^{-y} = h - h x$

$\frac{y(x-1)}{e^{-x}e^{-y}} = \frac{h(x-1)}{e^{-x}e^{-y}}$

$y = \frac{1-x}{(1+x)e^{-y}}$

(34) $f(x) = 3 - 5x$

$y = 3 - 5x$

$x = \frac{3-y}{5}$

$5y = -x + 3$

(40) $f(x) = 5 - 4x^3$

$y = 5 - 4x^3$

$x = \sqrt[3]{\frac{5-y}{4}}$

$x - 5 = \frac{-4y}{3}$

$y = \frac{3}{4}(5-x)$

(36) $f(x) = \frac{1}{x^2}$

$y = \frac{1}{x^2}$

$x = \frac{1}{\sqrt{y}}$

$x^2 = \frac{1}{y}$

$y = \frac{1}{x^2}$

(42) $f(x) = x^2 + x$

$y = x^2 + x$

$x = y^2 + y$

$(\frac{1}{4}) + x = y^2 + y$

factor

$(x + \frac{1}{4}) = (y + \frac{1}{2})^2$

$\sqrt{x + \frac{1}{4}} = y + \frac{1}{2}$

$y = \sqrt{x + \frac{1}{4}} - \frac{1}{2}$

complete square