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These are alleged answers. For each error herein, you get extra-credit points for being the first to report it by e-mail.

$$1 \quad f(x) = 5 \cdot \left(\frac{9}{5}\right)^x$$

$$2 \quad g(x) = 5 \cdot \left(\frac{9}{5}\right)^{x/4}$$

$$3 \quad h(x) = 5 \cdot 4^{(x-2)/2} = 5 \cdot 2^{(x-2)}$$

$$4 \quad k(x) = 5 \cdot 4^{(x+2)/6} = 5 \cdot 2^{(x+2)/3}$$

$$5 \quad f^{-1}(x) = \log_{9/5} \left(\frac{x}{5}\right)$$

$$6 \quad g^{-1}(x) = 4 \log_{9/5} \left(\frac{x}{5}\right)$$

$$7 \quad h^{-1}(x) = 2 + 2 \log_4 \left(\frac{x}{5}\right) = 2 + \log_2 \left(\frac{x}{5}\right)$$

$$8 \quad k^{-1}(x) = 6 \log_4 \left(\frac{x}{5}\right) - 2 = 3 \log_2 \left(\frac{x}{5}\right) - 2$$

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