

$$f(x) = 5x + 4$$

$$g(x) = \frac{1}{2x}, \quad x \neq 0$$

$$h(x) = \left(\frac{1}{2}\right)^x$$

Find

(a) $fg(5)$.

$$g(5) = \frac{1}{2 \times 5} = \frac{1}{10}$$

$$fg(5) = 5 \times \frac{1}{10} + 4 = 4.5$$

Answer(a) 4.5 [2](b) $gg(x)$ in its simplest form.

$$gg(x) = \frac{1}{2g(x)} = \frac{1}{2 \cdot \frac{1}{2x}} = \frac{1}{1/x} = x$$

Answer(b) $gg(x) =$ x [2](c) $f^{-1}(x)$.

$$\begin{aligned} f(x) &= y \\ y &= 5x + 4 \\ y - 4 &= 5x \\ x &= \frac{y-4}{5} \end{aligned}$$

$$f^{-1}(y) = x$$

$$\rightarrow f^{-1}(x) = \frac{x-4}{5}$$

Answer(c) $f^{-1}(x) =$ $\frac{x-4}{5}$ [2](d) the value of x when $h(x) = 8$.

$$h(x) = 8$$

$$\left(\frac{1}{2}\right)^x = 2^3$$

$$\left(2^{-1}\right)^x = 2^3$$

$$-x = 3 \quad x = -3$$

Answer(d) $x =$ -3 [2]

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