

Evaluating Composition of Three Functions

A) If $f(x) = -2x - 15$, $g(x) = -7$ and $h(x) = x^2 + 4$, evaluate the following.

1) $f(g(f(4)))$

2) $h(f(g(-20)))$

B) If $f(x) = x^6 - 5x^3 - 20$, $g(x) = -9x$ and $h(x) = \frac{x-9}{3}$, evaluate the following.

1) $(g \circ f \circ h)(15)$

C) If $f(x) = -2x^2 + 9x + 1$, evaluate the following.

1) $(f \circ (h \circ g))(-3)$

3) $15(f \circ (h \circ g))(-3)$

D) 1) If $f(x) = 16$, $g(x) = e^{-x}$ and $h(x) = \log_4 x$ which of the following represents $(g \circ h \circ f)(10)$?

i) $-e^2$

ii) e^{16}

iii) e^2

iv) $-e^{16}$

2) If $f(x) = \frac{x^2 + 14}{x}$, $g(x) = 18 - x^4$ and $h(x) = \sqrt{2}$, which of the following represents $f(g(h(0)))$?

i) -14

ii) 14

iii) -15

iv) 15

PREVIEW

Gain complete access to the largest
collection of worksheets in all subjects!

Members, please
log in to
download this
worksheet.

Not a member?
Please sign up to
gain complete
access.

www.mathworksheets4kids.com

