

Evaluating Piecewise Functions

A) Evaluate each function.

$$1) f(x) = \begin{cases} 3x^2 - x & , x \leq -2 \\ 17 & , -2 < x \leq 18 \end{cases}$$

$$2) f(x) = \begin{cases} 5x + 1 & , -20 \leq x \leq 5 \\ -x + 15 & , 5 < x < \infty \end{cases}$$

i) $f(18) =$ _____

i) $f(-10) =$ _____

ii) $f(-5) =$ _____

ii) $f(14) =$ _____

$$3) f(x) = \begin{cases} (x-2)^2 & , x > 0 \\ x^2 - 9x & , x \leq 0 \end{cases}$$

PREVIEW

, $x \neq 0$

, $x = 0$

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

1) $4f(-7) + 2f(8) =$ _____

$=$ _____

3) $6f(3) \times 3f(-1) =$ _____

4) $f(0) - 5f(16) =$ _____

C) If $f(x) = \begin{cases} x + 3 & , -13 \leq x \leq 0 \\ x^2 - 8 & , 0 < x \leq 13 \end{cases}$; what is the value of $f(12)$?

i) 144

ii) 136

iii) 121

iv) 169