## **Evaluating Piecewise Functions**

A) Evaluate each function.

1) 
$$f(x) = \begin{cases} -x - 4 & , x \le 5 \\ 2x^2 - 7 & , 5 < x \le 10 \end{cases}$$

2) 
$$f(x) = \begin{cases} x^2 & , -15 \le x \le 0 \\ x - 5 & , 0 < x \le 15 \end{cases}$$

i) 
$$f(-2) =$$
\_\_\_\_\_

i) 
$$f(-5) =$$

ii) 
$$f(7) =$$
\_\_\_\_\_

ii) 
$$f(15) =$$
\_\_\_\_

$$f(x) = \begin{cases} \frac{6}{x} - 1 & , \\ 3 & , \end{cases}$$

## 3) $f(x) = \begin{cases} \frac{6}{x} - 1 & , \\ 3 & , \end{cases}$

$$, 0 < x < \infty$$

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f(0)

Members, please log in to B) If  $f(x) = \begin{cases} x+2 & , x : \\ 8x & , -7 \end{cases}$  download this worksheet.

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1)  $\frac{7f(6)}{4f(-9)}$ 

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3) 
$$-9f(-7) + f(0) =$$

4) 
$$f(-1) \times 2f(2) =$$

C) If  $f(x) =\begin{cases} (x+4)^2 & , & -20 \le x \le 0 \\ 2x^2 & x & 0 \le x \le 22 \end{cases}$ ; what is the value of f(-11)?

- i) 132
- ii) -110
- iii) 49
- iv) -81