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## Evaluating Piecewise Functions

A) Evaluate each function.

1) $f(x)= \begin{cases}-x-4 & , x \leq 5 \\ 2 x^{2}-7 & , 5<x \leq 10\end{cases}$
2) $f(x)= \begin{cases}x^{2} & ,-15 \leq x \leq 0 \\ x-5 & , 0<x \leq 15\end{cases}$
i) $f(-2)=$ $\qquad$ i) $f(-5)=$
ii) $f(7)=$ $\underline{\text { ii) } \quad f(15)=}$
3) $f(x)=\left\{\begin{array}{cc}\frac{6}{x}-1, \lambda \\ 3,1\end{array}\right.$ , $x \leq 0$ Gain complete access to the largest
i) $f(3)=$ $\qquad$

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ii) $f(0)=$
B) If $f(x)= \begin{cases}x+2 & , x: \\ 8, & \log \text { in to } \\ \text { download this } \\ 8 x & ,-7\end{cases}$


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

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, $0<x<\infty$
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$=$
3) $-9 f(-7)+f(0)$
$=$
4) $f(-1) \times 2 f(2)=$
C) If $f(x)=\left\{\begin{array}{ll}(x+4)^{2}, & -20 \leq x \leq 0 \\ 3 x^{2}-x, & 0<x \leq 20\end{array}\right.$; what is the value of $f(-11)$ ?
i) 132
ii) $\quad-110$
iii) 49
iv) $\quad-81$

