Evaluating Functions

A) Evaluate each function at the specified values.

1) $f(x) = 15 + x$; $x = 7$

2) $f(x) = 2x^5 - 3x^3 - 8x^2 - 9x$; $x = -2$

_____   _____

B) Evaluate each function.

1) $f(x) = x^3 - 5x^2 - x$; find $f(3)$

2) $f(x) = 9x^2 + 5$; find $f(10)$

_____   _____

C) If $f(x) = -7x^4 - 4x^3 - 8x^2 + 12$; find the following.

1) $f(-2)$ =   _____

2) $f(-3)$ =   _____

3) $f(1)$ =   _____

4) $f(0)$ =   _____

D) If $f(x) = -4(x + 1)$; find the following.

1) $\dfrac{8f(-4)}{f(3)}$ =   _____

2) $3f(-13) + 5f(6)$ =   _____

3) $-4f(1) - 9f(-1)$ =   _____

4) $-2f(4) \times f(-5)$ =   _____

E) What is the value of $f(-11)$, if $f(x) = 5x^2 - 2x$?

i)   583   ii)   −583   iii)   −627   iv)   627