

# Evaluating Polynomial Functions

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A) Evaluate each function at the specified value.

1)  $f(x) = x(-9x^2 + 3); x = -2$

2)  $f(x) = x^6 - 2x^2 + 14; x = 0$

3) \_\_\_\_\_

B) \_\_\_\_\_

1) \_\_\_\_\_

# Preview

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3) If  $f(x) = 6x^5 + 4x^4 - x^3 + 4$ , what is  $f(2)$ ?

4) If  $f(x) = x^5 - 6x^4 + 1$ , what is  $f(5)$ ?

C) What is the value of  $f(6)$  if  $f(x) = -3x^3$ ?

i) -468

ii) 648

iii) 468

iv) -648