2.3 Quiz: Calculator use with polynomials

1. With or without a calculator, evaluate each polynomial for the given value of x.

(a)
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, $x = 0$

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 $f(0) =$ (b) $g(x) = x^4 + 7x^3 - 2$, $x = 1$
 $g(1) =$

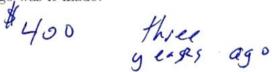
2. Use a calculator to find the value of $h(x) = x^3 + 5x^2 - 4x + 12$ for x = -7.

$$h(-7) = -58$$

3. A polynomial A is used to model the value of an investment account. Two deposits were made which earned interest annually.

$$A(x) = 650x^6 + 400x^3$$

(a) The first deposit of \$650 was made six years ago. How much was the second deposit, and how long ago, was it made?



(b) Find the value of A(x) for x = 1.06 to the nearest cent.

(c) If the interest rate earned on the account is $r = 4\frac{1}{2}\%$ what value of x would be used in the formula?