

Written Homework Section 4.2

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Name: _____

Due: _____

In Problems 11–20, use the Remainder Theorem to find the remainder when $f(x)$ is divided by $x - c$. Then use the Factor Theorem to determine whether $x - c$ is a factor of $f(x)$.

16. $f(x) = 2x^6 - 18x^4 + x^2 - 9; x + 3$

Answer: _____

In Problems 39–56, find the real zeros of f . Use the real zeros to factor f .

40. $f(x) = x^3 + 8x^2 + 11x - 20$

(a) $f(x)$ has at _____ real zero.

(b) *Possible rational zero answer:*

$p =$	
$q =$	
$\frac{p}{q} =$	

Answer zeros are: _____