Factoring Polynomials - Synthetic Division

Sheet 3

Apply synthetic division method to factorize each polynomial.

1) $8c^4 + 17c^3 - 6c^2 - 17c - 2$

2) $2g^5 - 12g^4 + 8g^3 + 12g^2 - 10g$

3) $h^3 - 5h^2 - 16h + 80$

28t + 48

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5) $4w^3 - 9w$

+ 84k² + 45k

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1) Determine whether $x - 2$ is a factor of $-x^7 - 6x^5 + 11x^3 - 4x$.