**3.2 Synthetic Division**

**CLASSROOM EXAMPLE 1 Using Synthetic Division**

Use synthetic division to perform the division.

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**CLASSROOM EXAMPLE 2 Applying the Remainder Theorem**

Let  Use the remainder theorem to find 

**Potential Zeros of Polynomial Functions**

**CLASSROOM EXAMPLE 3 Deciding Whether a Number Is a Zero**

Determine whether the given number *k* is a zero of 

**(a) **

**(b) **