# **2.4 &2.5 Dividing Polynomials**

# Practice Problem 1:

Divide $7-11x-3x^{2}+2x^{3}$ by $x-3$

# Practice Problem 2:

Use synthetic division to divide $2x^{2}+x-10$ by $x-2$

# Practice Problem 3:

List all possible rational zeros of $f\left(x\right)=x^{3}+2x^{2}-5x-6$

Answers

1. $2x^{2}+3x-2+\frac{1}{x-3}$
2. $(2x+5)$
3. $\pm 1,\pm 2,\pm 3,\pm 6$

