

Lesson 6-3**Name:****Determine whether each binomial is a factor of $x^3 + 3x^2 - 10x - 24$.**

1. $x + 4$

2. $x - 3$

Divide using long division. Check your answers.

3. $(x^2 - 13x - 48) \div (x + 3)$

4. $(2x^2 + x - 7) \div (x - 5)$

5. $(x^3 + 5x^2 - 3x - 1) \div (x - 1)$

6. $(3x^3 - x^2 - 7x + 6) \div (x + 2)$