

Warm up week of 2.20

Wednesday

1. Divide using synthetic division: $f(x) = (5x^3 + 21x^2 - 21x - 5) \div (x + 5)$
2. Divide using synthetic division: $f(x) = 2x^4 - x^3 - 18x^2 + 9x \div (x + 3)$

Thursday

1. Given 1 factor of the polynomial, find remaining factors: $f(x) = x^3 + 9x^2 + 23x + 15; (x + 5)$
2. Given 1 factor of the polynomial, find remaining factors: $f(x) = x^3 - x^2 - 14x + 24; (x - 3)$

Friday

1. Given 1 factor of polynomial, find remaining factors: $f(x) = 5x^3 + 21x^2 - 21x - 5; (x + 5)$
2. Given 1 factor of polynomial, find the remaining factors: $f(x) = 3x^3 - 4x^2 - 9x + 10; (x - 2)$