$$x^5 + 7x^4 - 2x^3 - 14x^2 - 3x - 21 \;\Big|\; x^3 - 2x^2 + x - 2$$
$$x^2 + 9x + 15$$
$$-(x^5 - 2x^4 + x^3 - 2x^2)$$
$$0 \quad 9x^4 - 3x^3 - 12x^2 - 3x$$
$$-(9x^4 - 18x^3 + 9x^2 - 18x)$$
$$0 \quad 15x^3 - 21x^2 + 15x - 21$$
$$-(15x^3 - 30x^2 + 15x - 30)$$
$$0 \quad 9x^2 + 9$$

$$x^3 - 2x^2 + x - 2 \;\Big|\; 9x^2 + 9$$
$$\tfrac{1}{9}x - \tfrac{2}{9}$$
$$-(x^3 + 0 + x)$$
$$0 \; -2x^2 \; 0 \; -2$$
$$-(-2x^2 - 2)$$
$$0$$

$$ggT(a, b) = 9x^2 + 9$$

$$x^5 + 7x^4 - 2x^3 - 14x^2 - 3x - 21 \;\Big|\; 9x^2 + 9$$
$$\tfrac{1}{9}x^3 + \tfrac{7}{9}x^2 - \tfrac{3}{9}x - \tfrac{21}{9}$$
$$-(x^5 + 0 + x^3)$$
$$0 \quad 7x^4 - 3x^3 - 14x^2$$
$$-(7x^4 + 0 + 7x^2)$$
$$0 \quad -3x^3 - 21x^2 - 3x$$
$$-(-3x^3 + 0 + -3x)$$
$$-21x^2 - 21$$
$$-(-21x^2 - 21)$$
$$0$$