

1. Add the polynomials: $(4x^2 - 9x + 1) + (7x - 11x^2 - 8)$

2. Subtract the polynomials: $(9x^2 + 9x - 11) - (12x^2 + 3x + 16)$

3. Multiply the polynomials: $(4x - 5)(x + 8)$

4. Multiply the polynomials: $(7x - 2)(x^2 - 8x + 9)$

5. Multiply the polynomials: $(3x^2 + 4)(x + 2)$

6. Factor: $x^2 - 17x + 30$

7. Factor: $3x^2 - x - 14$

8. Factor: $81x^2 - 121$

9. Write the transformed function from $f(x) = x^2$: {shift left three, shift up one, reflect across x-axis}

10. Write the transformed function from $f(x) = x^2$: {shift right seven, shift down four}