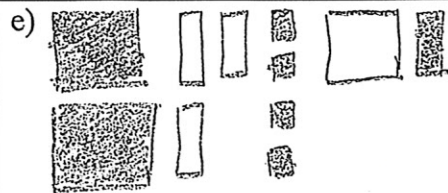
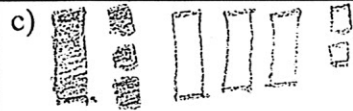
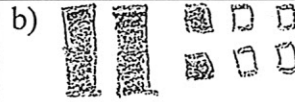


Simplifying Polynomials - Modelling with Algebra Tiles Worksheet

Note: Shaded tiles are negative; Unshaded tiles are positive.

1) Simplify the polynomial using zero-pairing and write the simplified expression.



Note: Shaded tiles are negative; Unshaded tiles are positive.

2) Sketch the algebra tiles required to model the expression. Then simplify the polynomial using zero-pairing.

| | |
|-------------------------------|-------------------------------|
| a) $3x + 4 - x$ | b) $2 - 4x + 5$ |
| c) $4 - 2x - 5 + 5x$ | d) $2x^2 + 2x - x^2$ |
| e) $3x^2 + 4x - 3 - x^2 - 4x$ | f) $2x^2 + 2x - x^2 - 5x + 1$ |