The values of the third row of Pascal's triangle are given below

1	3	3	1

a) Write down the values in the fourth row of Pascal's triangle
b) Hence or otherwise, find the term in x² in the expansion of $(3x + 2)^4$

a)

1	4	6	4	1

b)

$$6 \times (3x)^2 \times 2^2 \quad = 6 \times 3^2 x^2 \times 2^2$$
$$= 6 \times 9x^2 \times 4$$
$$= 6 \times 9 \times 4x^2$$
$$= 54 \times 4x^2$$
$$= 216x^2$$