

EXERCISE 3B

1 a $x^3 + 3x^2 + 6x + 8$

c $x^3 + 5x^2 + 7x + 3$

e $2x^3 + 7x^2 + 8x + 3$

g $3x^3 + 14x^2 - x + 20$

2 a $x^3 + 9x^2 + 26x + 24$

c $x^3 - 10x^2 + 31x - 30$

e $12x^3 + 11x^2 - 2x - 1$

g $-3x^3 + 16x^2 - 12x - 16$

i $x^3 - 6x^2 + 12x - 8$

3 a $2 \times 2 = 4$ terms

c $2 \times 3 = 6$ terms

e $4 \times 2 = 8$ terms

4 a $x^4 + 2x^3 + x^2 + 8x + 3$

b $2x^4 + 7x^3 - 2x^2 - 5x + 2$

c $6x^4 - 7x^3 - 8x^2 + 13x - 4$

d $x^4 - x^3 - 19x^2 + 49x - 30$

b $x^3 + 5x^2 + 3x - 9$

d $2x^3 + x^2 - 6x - 5$

f $2x^3 - 9x^2 + 4x + 15$

h $8x^3 - 14x^2 + 7x - 1$

b $x^3 - x^2 - 14x + 24$

d $2x^3 + x^2 - 12x + 9$

f $-3x^3 + 26x^2 - 33x - 14$

h $x^3 + 9x^2 + 27x + 27$

b $3 \times 2 = 6$ terms

d $3 \times 3 = 9$ terms

f $4 \times 3 = 12$ terms