

2A-2B

1 a x^7

b d^{12}

c y^{a+b+c}

d x

e $5k^5$

f $2m^5$

g $30x^8$

h $5s^{-1}$

i $12t^{12}$

2 a x^{12} b $4x^{10}$ c x^6 d x^3

e $x^{-2} = \frac{1}{x^2}$ f x^7

3 a $7x + 9y$ b $-2a - 3b$

c $-xy + 8pq$ d $2x + x^2 - 2x^3$

e $7b^2 + 5b$ f $7y + y^2 + 3y^3$

g $4abc - xy^2 - 7xy$ h $-pqr - 3abc$

i $x^2y^2 - 2xy + 6xy^2 + x^2y$

4 a $p^0 = 1$ but then she needs to multiply by 4. Correct answer: 4

b She has forgotten to square the 7. Correct answer: $49x^6$

c She has multiplied the powers rather than adding them.
Correct answer: $6y^5$

d She has subtracted the two numbers rather than dividing them. Correct answer: $5a^3$

5 a $-48x$ b $21y$ c $40x^2$ d $70a^3$

6 a $4x$ b 3 c $2a$ d x^2

7 a $2x + 10y$ b $10b - 15c$

c $3xy - 6xz$ d $4x - 12y + 8z$

e $p^2 + 2q^2p - 3rp$ f $-2x^3 - 2x^2 + 6x$

8 a $-7a^3b^2$ b $15x^3y^4$ c $3a^2b$ d $\frac{3r}{4pq^4}$

9 a $x^2y^2z^2$ b $\frac{x^3}{yz}$ c $3x^4y^6$ d $6x^2y^2z^7$

e x^2 f $4x^6 + 4x^9$