



STRATEGIES TO SOLVE THE PROBLEMS

Example 1

Any number or variable raised to the power 1 is simply written as itself.

 $x^{1} = x$ $4^{1} = 4$ $a^{1} = a$

Example 2

If an algebraic expression involves the addition or subtraction of zero, this is left out of the expression.

a + 0 = a

$$0 - 7a = -7a$$

Example 3

Any variable multiplied by the number 1 is written as just the variable.

 $1 \times y = y$

1b = b

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Example 4

Variables multiplied by themselves are written as the variable raised to a power. The power value indicates the number of times the variable is multiplied by itself.

 $a \times a = a^2$ $x \times x \times x = x^3$

 $d \times d \times d \times d = d^4$

Example 5 The index laws state that any number or variable raised to the power zero equates to 1.

$$a^{0} = 1$$
$$4^{0} = 1$$
$$2d^{0} = 2 \times 1 = 2$$



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Solutions to Essential Revision	
1 15 -3r 0	<pre></pre>
3	$\begin{array}{c} 2 \\ 2 \\ 4 \\ 6 \\ 1 \\ 1 \\ \end{array}$
5. $2h = 0$	6 8r - 1 39
	8. n
93c + 12	10. b = 5
11. x, 1, 4	12. 2

Solutions to Questions	
1. <i>y</i>	2. <i>b</i>
3. <i>x</i>	4. <i>y</i> + 2
$5. c^{3}$	6. 1
7. <i>b</i> + 3	8. a ⁵
9. <i>d</i>	10. <i>b</i>
11. 4	12. <i>s</i>
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