

Example: If $a = 5$, $b = 4$ and $c = 2$, find the value of a) a^2 b) $2b^2$ c) c^3

a) $a^2 = 5^2 = 5 \times 5 = 25$

b) $2b^2 = 2 \times 4^2 = 2 \times 16 = 32$

c) $c^3 = 2^3 = 8$

Find the value of each of the following if $a = 4$, $b = 2$ and $c = 3$.

1. $c^2 = 3^2 = 9$

8. $25 - 6b^2 = 25 - 6 \times 2^2 = 1$

2. $a^3 = 4^3 = 64$

9. $4a^2 + 1 = 4 \times 4^2 + 1 = 65$

3. $3b^2 = 3 \times 2^2 = 12$

10. $c^3 + a^3 = 3^3 + 4^3 = 91$

4. $3c^2 = 3 \times 3^2 = 27$

11. $2a^2 - 11 = 2 \times 4^2 - 11 = 21$

5. $c^4 = 3^4 = 81$

12. $3c^3 - 7 = 3 \times 3^3 - 7 = 74$

6. $3a^2 - c^3 = 3 \times 4^2 - 3^3 =$

13. $a^2 + c^2 - b^2 = 4^2 + 3^2 -$

$48 - 27 = 21$

$2^2 = 21$

7. $5b^2 - 7 = 5 \times 2^2 - 7 = 13$

14. $\frac{c^2 + c^3}{a^2 + b} = \frac{3^2 + 3^3}{4^2 + 2} = \frac{36}{18} = 2$