

THE IMPORTANCE OF SLEEP



IMPORTANCE OF SLEEP **SLEEP MATH**

NAME _____

DATE _____

SLEEP

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NAME _____

DATE _____

SLEEP

Sleep is extremely important for our growth and development. A child should get between 9 and 12 hours sleep each night.

Just like humans, animals also need sleep in order to develop and - Different animals require different amounts of sleep.

What time do you go to sleep on a school night? _____

What time do you get up on a school day? _____

How much sleep do you normally get on a school night? _____

-  **HORSE - 3 HOURS**
-  **ELEPHANT - 4 HOURS**
-  **DOLPHIN - 8 HOURS**
-  **SLOTH - 10 HOURS**
-  **PANDA - 12 HOURS**
-  **LION - 13 HOURS**

Use the sleeping animals guide to help you answer the questions below.



Which animal sleeps the most? _____

How long does a horse sleep? _____

How long does a lion sleep? _____



SLEEP MATH

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Sleep Hacking for Busy Bees: Optimizing Sleep in Short Bursts Ethan West, In our frenetic modern world the quest for efficiency often comes at a steep price We juggle demanding careers personal responsibilities and social obligations all while trying to maintain a semblance of balance Amidst this relentless hustle one crucial aspect of our well being frequently gets shortchanged sleep Have you ever caught yourself wondering How can I get the most out of my sleep in the little time I have If so you re not alone This book delves into the art and science of sleep hacking a practice designed to optimize sleep for those who lead busy lives But before we delve into the nitty gritty let s explore why sleep is non negotiable Sleep is often perceived as a luxury something we can afford to cut back on to squeeze in an extra hour of work or play Yet research consistently underscores that sleep is foundational to our health and well being According to the National Sleep Foundation adults need between 7 to 9 hours of sleep per night for optimal functioning However a staggering one in three adults doesn t meet this requirement leading to a host of physical and mental health issues So why is sleep so important

Hack It (Sleep) Martin Moller, 2020-01-12 How do you wake up in the morning Feeling lethargic like you didn t have enough sleep Hitting the snooze button to catch a few extra minutes which turns into an hour Now you re running late You re rushing through a shower grabbing a cup of coffee to go already feeling stressed and you haven t even started the day At work you find it hard to focus You have so much on your to do list that you re starting to freak out If you re like most people more trouble lines up after lunchtime The sugar crash kicks in from that rushed coffee and you re starting to feel sleepy You chug another cup of coffee but it doesn t change a thing That evening you re full of energy You can t fall asleep so what do you do You pick up your phone and pass the time on news and social media Before you even realize it It s past midnight and you feel guilty You ve tried everything but the cycle just keeps going on and on like a mouse running on a hamster wheel You ve tried self development techniques you tried to change your habits but you still fail to change anything Listen what I m about to share with you are cheat codes that allow you to maximize your true potential and unleash the best version of yourself all with the

use of modern science and technology But first you have to understand that The reason why you get tired easily and are unable to focus is not your fault It could be the result of changes in the things around you like the air you breathe the water you drink the food you eat and the way you sleep Your smartphone and social media could also be to blame hours with that artificial blue light interrupt your natural sleep cycle distracting you from doing things that really matter and interrupting your focus With this book you will be able to have access to tools that will give you more energy provide better sleep TRIPLE your productivity radically improve the quality of your life and unleash the best version of yourself What you are about to get your hands on are the strategies the world s top achievers the elite 1% use to optimize the way they live and sleep Your frustration ends here This book is made you if you want to hack your mind body with biology technology allowing you to increase your energy boost your performance and optimize your sleep This life changing blueprint contains 7 fast biohacking strategies to help you achieve exceptional performance get better sleep for better rest relaxation and recuperation So if you want to double your energy perform at an elite level and transform into a smarter stronger and happier you then this book is what you ve been searching for Here s what you ll discover in this incredible book Why it s difficult to get a good 8 hours of sleep every single night An inexpensive smart device that reduces Blue Light exposureType of water that will boost your alertness improve mental clarity and increase energy levelsSo if you want to optimize your sleep and wake up energized every morning grab this book

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web algebra formulas for class 8 here is the list of class 8 algebra formula $a^2 - b^2 = (a + b)(a - b)$ $a^2 + 2ab + b^2 = (a + b)^2$ $a^2 - 2ab + b^2 = (a - b)^2$ $a^3 - b^3 = (a - b)(a^2 + ab + b^2)$ $a^3 + b^3 = (a + b)(a^2 - ab + b^2)$ $(a + b)^2 = a^2 + 2ab + b^2$ $(a - b)^2 = a^2 - 2ab + b^2$ $(a + b)^3 = a^3 + 3a^2b + 3ab^2 + b^3$ $(a - b)^3 = a^3 - 3a^2b + 3ab^2 - b^3$ $(a + b)(a - b) = a^2 - b^2$ $(a + b)^2 - (a - b)^2 = 4ab$ $(a + b)^2 + (a - b)^2 = 2(a^2 + b^2)$ $(a + b)^3 - (a - b)^3 = 2(a^2 + ab + b^2)(a + b)$ $(a + b)^3 + (a - b)^3 = 2(a^2 - ab + b^2)(a + b)$ $(a + b)^4 - (a - b)^4 = 4ab(a + b)(a^2 + b^2)$ $(a + b)^4 + (a - b)^4 = 2(a^2 + b^2)(a^2 + 2ab + b^2)$ $(a + b)^5 - (a - b)^5 = 5a^4b + 10a^3b^2 + 10a^2b^3 + 5ab^4$ $(a + b)^5 + (a - b)^5 = 2(a^5 + 5a^3b^2 + 5a^2b^3 + b^5)$ $(a + b)^6 - (a - b)^6 = 6a^5b + 15a^4b^2 + 20a^3b^3 + 15a^2b^4 + 6ab^5$ $(a + b)^6 + (a - b)^6 = 2(a^6 + 6a^4b^2 + 15a^3b^3 + 6a^2b^4 + b^6)$ $(a + b)^7 - (a - b)^7 = 7a^6b + 21a^5b^2 + 35a^4b^3 + 35a^3b^4 + 21a^2b^5 + 7ab^6$ $(a + b)^7 + (a - b)^7 = 2(a^7 + 7a^5b^2 + 21a^4b^3 + 35a^3b^4 + 21a^2b^5 + 7ab^6)$ $(a + b)^8 - (a - b)^8 = 8a^7b + 28a^6b^2 + 56a^5b^3 + 56a^4b^4 + 28a^3b^5 + 8a^2b^6$ $(a + b)^8 + (a - b)^8 = 2(a^8 + 8a^6b^2 + 28a^5b^3 + 56a^4b^4 + 28a^3b^5 + 8a^2b^6)$ $(a + b)^9 - (a - b)^9 = 9a^8b + 36a^7b^2 + 84a^6b^3 + 84a^5b^4 + 36a^4b^5 + 9a^3b^6$ $(a + b)^9 + (a - b)^9 = 2(a^9 + 9a^7b^2 + 36a^6b^3 + 84a^5b^4 + 36a^4b^5 + 9a^3b^6)$ $(a + b)^{10} - (a - b)^{10} = 10a^9b + 45a^8b^2 + 120a^7b^3 + 120a^6b^4 + 45a^5b^5 + 10a^4b^6$ $(a + b)^{10} + (a - b)^{10} = 2(a^{10} + 10a^8b^2 + 45a^7b^3 + 120a^6b^4 + 45a^5b^5 + 10a^4b^6)$ $(a + b)^{11} - (a - b)^{11} = 11a^{10}b + 55a^9b^2 + 165a^8b^3 + 165a^7b^4 + 55a^6b^5 + 11a^5b^6$ $(a + b)^{11} + (a - b)^{11} = 2(a^{11} + 11a^9b^2 + 55a^8b^3 + 165a^7b^4 + 55a^6b^5 + 11a^5b^6)$ $(a + b)^{12} - (a - b)^{12} = 12a^{11}b + 66a^{10}b^2 + 198a^9b^3 + 198a^8b^4 + 66a^7b^5 + 12a^6b^6$ $(a + b)^{12} + (a - b)^{12} = 2(a^{12} + 12a^{10}b^2 + 66a^9b^3 + 198a^8b^4 + 66a^7b^5 + 12a^6b^6)$ $(a + b)^{13} - (a - b)^{13} = 13a^{12}b + 78a^{11}b^2 + 273a^{10}b^3 + 273a^9b^4 + 78a^8b^5 + 13a^7b^6$ $(a + b)^{13} + (a - b)^{13} = 2(a^{13} + 13a^{11}b^2 + 78a^{10}b^3 + 273a^9b^4 + 78a^8b^5 + 13a^7b^6)$ $(a + b)^{14} - (a - b)^{14} = 14a^{13}b + 91a^{12}b^2 + 364a^{11}b^3 + 364a^{10}b^4 + 91a^9b^5 + 14a^8b^6$ $(a + b)^{14} + (a - b)^{14} = 2(a^{14} + 14a^{12}b^2 + 91a^{11}b^3 + 364a^{10}b^4 + 91a^9b^5 + 14a^8b^6)$ $(a + b)^{15} - (a - b)^{15} = 15a^{14}b + 105a^{13}b^2 + 455a^{12}b^3 + 455a^{11}b^4 + 105a^{10}b^5 + 15a^9b^6$ $(a + b)^{15} + (a - b)^{15} = 2(a^{15} + 15a^{13}b^2 + 105a^{12}b^3 + 455a^{11}b^4 + 105a^{10}b^5 + 15a^9b^6)$ $(a + b)^{16} - (a - b)^{16} = 16a^{15}b + 120a^{14}b^2 + 560a^{13}b^3 + 560a^{12}b^4 + 120a^{11}b^5 + 16a^{10}b^6$ $(a + b)^{16} + (a - b)^{16} = 2(a^{16} + 16a^{14}b^2 + 120a^{13}b^3 + 560a^{12}b^4 + 120a^{11}b^5 + 16a^{10}b^6)$ $(a + b)^{17} - (a - b)^{17} = 17a^{16}b + 136a^{15}b^2 + 680a^{14}b^3 + 680a^{13}b^4 + 136a^{12}b^5 + 17a^{11}b^6$ $(a + b)^{17} + (a - b)^{17} = 2(a^{17} + 17a^{15}b^2 + 136a^{14}b^3 + 680a^{13}b^4 + 136a^{12}b^5 + 17a^{11}b^6)$ $(a + b)^{18} - (a - b)^{18} = 18a^{17}b + 153a^{16}b^2 + 765a^{15}b^3 + 765a^{14}b^4 + 153a^{13}b^5 + 18a^{12}b^6$ $(a + b)^{18} + (a - b)^{18} = 2(a^{18} + 18a^{16}b^2 + 153a^{15}b^3 + 765a^{14}b^4 + 153a^{13}b^5 + 18a^{12}b^6)$ $(a + b)^{19} - (a - b)^{19} = 19a^{18}b + 171a^{17}b^2 + 855a^{16}b^3 + 855a^{15}b^4 + 171a^{14}b^5 + 19a^{13}b^6$ $(a + b)^{19} + (a - b)^{19} = 2(a^{19} + 19a^{17}b^2 + 171a^{16}b^3 + 855a^{15}b^4 + 171a^{14}b^5 + 19a^{13}b^6)$ $(a + b)^{20} - (a - b)^{20} = 20a^{19}b + 180a^{18}b^2 + 900a^{17}b^3 + 900a^{16}b^4 + 180a^{15}b^5 + 20a^{14}b^6$ $(a + b)^{20} + (a - b)^{20} = 2(a^{20} + 20a^{18}b^2 + 180a^{17}b^3 + 900a^{16}b^4 + 180a^{15}b^5 + 20a^{14}b^6)$ $(a + b)^{21} - (a - b)^{21} = 21a^{20}b + 198a^{19}b^2 + 972a^{18}b^3 + 972a^{17}b^4 + 198a^{16}b^5 + 21a^{15}b^6$ $(a + b)^{21} + (a - b)^{21} = 2(a^{21} + 21a^{19}b^2 + 198a^{18}b^3 + 972a^{17}b^4 + 198a^{16}b^5 + 21a^{15}b^6)$ $(a + b)^{22} - (a - b)^{22} = 22a^{21}b + 209a^{20}b^2 + 1012a^{19}b^3 + 1012a^{18}b^4 + 209a^{17}b^5 + 22a^{16}b^6$ $(a + b)^{22} + (a - b)^{22} = 2(a^{22} + 22a^{20}b^2 + 209a^{19}b^3 + 1012a^{18}b^4 + 209a^{17}b^5 + 22a^{16}b^6)$ $(a + b)^{23} - (a - b)^{23} = 23a^{22}b + 220a^{21}b^2 + 1058a^{20}b^3 + 1058a^{19}b^4 + 220a^{18}b^5 + 23a^{17}b^6$ $(a + b)^{23} + (a - b)^{23} = 2(a^{23} + 23a^{21}b^2 + 220a^{20}b^3 + 1058a^{19}b^4 + 220a^{18}b^5 + 23a^{17}b^6)$ $(a + b)^{24} - (a - b)^{24} = 24a^{23}b + 232a^{22}b^2 + 1080a^{21}b^3 + 1080a^{20}b^4 + 232a^{19}b^5 + 24a^{18}b^6$ $(a + b)^{24} + (a - b)^{24} = 2(a^{24} + 24a^{22}b^2 + 232a^{21}b^3 + 1080a^{20}b^4 + 232a^{19}b^5 + 24a^{18}b^6)$ $(a + b)^{25} - (a - b)^{25} = 25a^{24}b + 240a^{23}b^2 + 1092a^{22}b^3 + 1092a^{21}b^4 + 240a^{20}b^5 + 25a^{19}b^6$ $(a + b)^{25} + (a - b)^{25} = 2(a^{25} + 25a^{23}b^2 + 240a^{22}b^3 + 1092a^{21}b^4 + 240a^{20}b^5 + 25a^{19}b^6)$ $(a + b)^{26} - (a - b)^{26} = 26a^{25}b + 252a^{24}b^2 + 1092a^{23}b^3 + 1092a^{22}b^4 + 252a^{21}b^5 + 26a^{20}b^6$ $(a + b)^{26} + (a - b)^{26} = 2(a^{26} + 26a^{24}b^2 + 252a^{23}b^3 + 1092a^{22}b^4 + 252a^{21}b^5 + 26a^{20}b^6)$ $(a + b)^{27} - (a - b)^{27} = 27a^{26}b + 252a^{25}b^2 + 1092a^{24}b^3 + 1092a^{23}b^4 + 252a^{22}b^5 + 27a^{21}b^6$ $(a + b)^{27} + (a - b)^{27} = 2(a^{27} + 27a^{25}b^2 + 252a^{24}b^3 + 1092a^{23}b^4 + 252a^{22}b^5 + 27a^{21}b^6)$ $(a + b)^{28} - (a - b)^{28} = 28a^{27}b + 252a^{26}b^2 + 1092a^{25}b^3 + 1092a^{24}b^4 + 252a^{23}b^5 + 28a^{22}b^6$ $(a + b)^{28} + (a - b)^{28} = 2(a^{28} + 28a^{26}b^2 + 252a^{25}b^3 + 1092a^{24}b^4 + 252a^{23}b^5 + 28a^{22}b^6)$ $(a + b)^{29} - (a - b)^{29} = 29a^{28}b + 252a^{27}b^2 + 1092a^{26}b^3 + 1092a^{25}b^4 + 252a^{24}b^5 + 29a^{23}b^6$ $(a + b)^{29} + (a - b)^{29} = 2(a^{29} + 29a^{27}b^2 + 252a^{26}b^3 + 1092a^{25}b^4 + 252a^{24}b^5 + 29a^{23}b^6)$ $(a + b)^{30} - (a - b)^{30} = 30a^{29}b + 252a^{28}b^2 + 1092a^{27}b^3 + 1092a^{26}b^4 + 252a^{25}b^5 + 30a^{24}b^6$ $(a + b)^{30} + (a - b)^{30} = 2(a^{30} + 30a^{28}b^2 + 252a^{27}b^3 + 1092a^{26}b^4 + 252a^{25}b^5 + 30a^{24}b^6)$ $(a + b)^{31} - (a - b)^{31} = 31a^{30}b + 252a^{29}b^2 + 1092a^{28}b^3 + 1092a^{27}b^4 + 252a^{26}b^5 + 31a^{25}b^6$ $(a + b)^{31} + (a - b)^{31} = 2(a^{31} + 31a^{29}b^2 + 252a^{28}b^3 + 1092a^{27}b^4 + 252a^{26}b^5 + 31a^{25}b^6)$ $(a + b)^{32} - (a - b)^{32} = 32a^{31}b + 252a^{30}b^2 + 1092a^{29}b^3 + 1092a^{28}b^4 + 252a^{27}b^5 + 32a^{26}b^6$ $(a + b)^{32} + (a - b)^{32} = 2(a^{32} + 32a^{30}b^2 + 252a^{29}b^3 + 1092a^{28}b^4 + 252a^{27}b^5 + 32a^{26}b^6)$ $(a + b)^{33} - (a - b)^{33} = 33a^{32}b + 252a^{31}b^2 + 1092a^{30}b^3 + 1092a^{29}b^4 + 252a^{28}b^5 + 33a^{27}b^6$ $(a + b)^{33} + (a - b)^{33} = 2(a^{33} + 33a^{31}b^2 + 252a^{30}b^3 + 1092a^{29}b^4 + 252a^{28}b^5 + 33a^{27}b^6)$ $(a + b)^{34} - (a - b)^{34} = 34a^{33}b + 252a^{32}b^2 + 1092a^{31}b^3 + 1092a^{30}b^4 + 252a^{29}b^5 + 34a^{28}b^6$ $(a + b)^{34} + (a - b)^{34} = 2(a^{34} + 34a^{32}b^2 + 252a^{31}b^3 + 1092a^{30}b^4 + 252a^{29}b^5 + 34a^{28}b^6)$ $(a + b)^{35} - (a - b)^{35} = 35a^{34}b + 252a^{33}b^2 + 1092a^{32}b^3 + 1092a^{31}b^4 + 252a^{30}b^5 + 35a^{29}b^6$ $(a + b)^{35} + (a - b)^{35} = 2(a^{35} + 35a^{33}b^2 + 252a^{32}b^3 + 1092a^{31}b^4 + 252a^{30}b^5 + 35a^{29}b^6)$ $(a + b)^{36} - (a - b)^{36} = 36a^{35}b + 252a^{34}b^2 + 1092a^{33}b^3 + 1092a^{32}b^4 + 252a^{31}b^5 + 36a^{30}b^6$ $(a + b)^{36} + (a - b)^{36} = 2(a^{36} + 36a^{34}b^2 + 252a^{33}b^3 + 1092a^{32}b^4 + 252a^{31}b^5 + 36a^{30}b^6)$ $(a + b)^{37} - (a - b)^{37} = 37a^{36}b + 252a^{35}b^2 + 1092a^{34}b^3 + 1092a^{33}b^4 + 252a^{32}b^5 + 37a^{31}b^6$ $(a + b)^{37} + (a - b)^{37} = 2(a^{37} + 37a^{35}b^2 + 252a^{34}b^3 + 1092a^{33}b^4 + 252a^{32}b^5 + 37a^{31}b^6)$ $(a + b)^{38} - (a - b)^{38} = 38a^{37}b + 252a^{36}b^2 + 1092a^{35}b^3 + 1092a^{34}b^4 + 252a^{33}b^5 + 38a^{32}b^6$ $(a + b)^{38} + (a - b)^{38} = 2(a^{38} + 38a^{36}b^2 + 252a^{35}b^3 + 1092a^{34}b^4 + 252a^{33}b^5 + 38a^{32}b^6)$ $(a + b)^{39} - (a - b)^{39} = 39a^{38}b + 252a^{37}b^2 + 1092a^{36}b^3 + 1092a^{35}b^4 + 252a^{34}b^5 + 39a^{33}b^6$ $(a + b)^{39} + (a - b)^{39} = 2(a^{39} + 39a^{37}b^2 + 252a^{36}b^3 + 1092a^{35}b^4 + 252a^{34}b^5 + 39a^{33}b^6)$ $(a + b)^{40} - (a - b)^{40} = 40a^{39}b + 252a^{38}b^2 + 1092a^{37}b^3 + 1092a^{36}b^4 + 252a^{35}b^5 + 40a^{34}b^6$ $(a + b)^{40} + (a - b)^{40} = 2(a^{40} + 40a^{38}b^2 + 252a^{37}b^3 + 1092a^{36}b^4 + 252a^{35}b^5 + 40a^{34}b^6)$ $(a + b)^{41} - (a - b)^{41} = 41a^{40}b + 252a^{39}b^2 + 1092a^{38}b^3 + 1092a^{37}b^4 + 252a^{36}b^5 + 41a^{35}b^6$ $(a + b)^{41} + (a - b)^{41} = 2(a^{41} + 41a^{39}b^2 + 252a^{38}b^3 + 1092a^{37}b^4 + 252a^{36}b^5 + 41a^{35}b^6)$ $(a + b)^{42} - (a - b)^{42} = 42a^{41}b + 252a^{40}b^2 + 1092a^{39}b^3 + 1092a^{38}b^4 + 252a^{37}b^5 + 42a^{36}b^6$ $(a + b)^{42} + (a - b)^{42} = 2(a^{42} + 42a^{40}b^2 + 252a^{39}b^3 + 1092a^{38}b^4 + 252a^{37}b^5 + 42a^{36}b^6)$ $(a + b)^{43} - (a - b)^{43} = 43a^{42}b + 252a^{41}b^2 + 1092a^{40}b^3 + 1092a^{39}b^4 + 252a^{38}b^5 + 43a^{37}b^6$ $(a + b)^{43} + (a - b)^{43} = 2(a^{43} + 43a^{41}b^2 + 252a^{40}b^3 + 1092a^{39}b^4 + 252a^{38}b^5 + 43a^{37}b^6)$ $(a + b)^{44} - (a - b)^{44} = 44a^{43}b + 252a^{42}b^2 + 1092a^{41}b^3 + 1092a^{40}b^4 + 252a^{39}b^5 + 44a^{38}b^6$ $(a + b)^{44} + (a - b)^{44} = 2(a^{44} + 44a^{42}b^2 + 252a^{41}b^3 + 1092a^{40}b^4 + 252a^{39}b^5 + 44a^{38}b^6)$ $(a + b)^{45} - (a - b)^{45} = 45a^{44}b + 252a^{43}b^2 + 1092a^{42}b^3 + 1092a^{41}b^4 + 252a^{40}b^5 + 45a^{39}b^6$ $(a + b)^{45} + (a - b)^{45} = 2(a^{45} + 45a^{43}b^2 + 252a^{42}b^3 + 1092a^{41}b^4 + 252a^{40}b^5 + 45a^{39}b^6)$ $(a + b)^{46} - (a - b)^{46} = 46a^{45}b + 252a^{44}b^2 + 1092a^{43}b^3 + 1092a^{42}b^4 + 252a^{41}b^5 + 46a^{40}b^6$ $(a + b)^{46} + (a - b)^{46} = 2(a^{46} + 46a^{44}b^2 + 252a^{43}b^3 + 1092a^{42}b^4 + 252a^{41}b^5 + 46a^{40}b^6)$ $(a + b)^{47} - (a - b)^{47} = 47a^{46}b + 252a^{45}b^2 + 1092a^{44}b^3 + 1092a^{43}b^4 + 252a^{42}b^5 + 47a^{41}b^6$ $(a + b)^{47} + (a - b)^{47} = 2(a^{47} + 47a^{45}b^2 + 252a^{44}b^3 + 1092a^{43}b^4 + 252a^{42}b^5 + 47a^{41}b^6)$ $(a + b)^{48} - (a - b)^{48} = 48a^{47}b + 252a^{46}b^2 + 1092a^{45}b^3 + 1092a^{44}b^4 + 252a^{43}b^5 + 48a^{42}b^6$ $(a + b)^{48} + (a - b)^{48} = 2(a^{48} + 48a^{46}b^2 + 252a^{45}b^3 + 1092a^{44}b^4 + 252a^{43}b^5 + 48a^{42}b^6)$ $(a + b)^{49} - (a - b)^{49} = 49a^{48}b + 252a^{47}b^2 + 1092a^{46}b^3 + 1092a^{45}b^4 + 252a^{44}b^5 + 49a^{43}b^6$ $(a + b)^{49} + (a - b)^{49} = 2(a^{49} + 49a^{47}b^2 + 252a^{46}b^3 + 1092a^{45}b^4 + 252a^{44}b^5 + 49a^{43}b^6)$ $(a + b)^{50} - (a - b)^{50} = 50a^{49}b + 252a^{48}b^2 + 1092a^{47}b^3 + 1092a^{46}b^4 + 252a^{45}b^5 + 50a^{44}b^6$ $(a + b)^{50} + (a - b)^{50} = 2(a^{50} + 50a^{48}b^2 + 252a^{47}b^3 + 1092a^{46}b^4 + 252a^{45}b^5 + 50a^{44}b^6)$ $(a + b)^{51} - (a - b)^{51} = 51a^{50}b + 252a^{49}b^2 + 1092a^{48}b^3 + 1092a^{47}b^4 + 252a^{46}b^5 + 51a^{45}b^6$ $(a + b)^{51} + (a - b)^{51} = 2(a^{51} + 51a^{49}b^2 + 252a^{48}b^3 + 1092a^{47}b^4 + 252a^{46}b^5 + 51a^{45}b^6)$ $(a + b)^{52} - (a - b)^{52} = 52a^{51}b + 252a^{50}b^2 + 1092a^{49}b^3 + 1092a^{48}b^4 + 252a^{47}b^5 + 52a^{46}b^6$ $(a + b)^{52} + (a - b)^{52} = 2(a^{52} + 52a^{50}b^2 + 252a^{49}b^3 + 1092a^{48}b^4 + 252a^{47}b^5 + 52a^{46}b^6)$ $(a + b)^{53} - (a - b)^{53} = 53a^{52}b + 252a^{51}b^2 + 1092a^{50}b^3 + 1092a^{49}b^4 + 252a^{48}b^5 + 53a^{47}b^6$ $(a + b)^{53} + (a - b)^{53} = 2(a^{53} + 53a^{51}b^2 + 252a^{50}b^3 + 1092a^{49}b^4 + 252a^{48}b^5 + 53a^{47}b^6)$ $(a + b)^{54} - (a - b)^{54} = 54a^{53}b + 252a^{52}b^2 + 1092a^{51}b^3 + 1092a^{50}b^4 + 252a^{49}b^5 + 54a^{48}b^6$ $(a + b)^{54} + (a - b)^{54} = 2(a^{54} + 54a^{52}b^2 + 252a^{51}b^3 + 1092a^{50}b^4 + 252a^{49}b^5 + 54a^{48}b^6)$ $(a + b)^{55} - (a - b)^{55} = 55a^{54}b + 252a^{53}b^2 + 1092a^{52}b^3 + 1092a^{51}b^4 + 252a^{50}b^5 + 55a^{49}b^6$ $(a + b)^{55} + (a - b)^{55} = 2(a^{55} + 55a^{53}b^2 + 252a^{52}b^3 + 1092a^{51}b^4 + 252a^{50}b^5 + 55a^{49}b^6)$ $(a + b)^{56} - (a - b)^{56} = 56a^{55}b + 252a^{54}b^2 + 1092a^{53}b^3 + 1092a^{52}b^4 + 252a^{51}b^5 + 56a^{50}b^6$ $(a + b)^{56} + (a - b)^{56} = 2(a^{56} + 56a^{54}b^2 + 252a^{53}b^3 + 1092a^{52}b^4 + 252a^{51}b^5 + 56a^{50}b^6)$ $(a + b)^{57} - (a - b)^{57} = 57a^{56}b + 252a^{55}b^2 + 1092a^{54}b^3 + 1092a^{53}b^4 + 252a^{52}b^5 + 57a^{51}b^6$ $(a + b)^{57} + (a - b)^{57} = 2(a^{57} + 57a^{55}b^2 + 252a^{54}b^3 + 1092a^{53}b^4 + 252a^{52}b^5 + 57a^{51}b^6)$ $(a + b)^{58} - (a - b)^{58} = 58a^{57}b + 252a^{56}b^2 + 1092a^{55}b^3 + 1092a^{54}b^4 + 252a^{53}b^5 + 58a^{52}b^6$ $(a + b)^{58} + (a - b)^{58} = 2(a^{58} + 58a^{56}b^2 + 252a^{55}b^3 + 1092a^{54}b^4 + 252a^{53}b^5 + 58a^{52}b^6)$ $(a + b)^{59} - (a - b)^{59} = 59a^{58}b + 252a^{57}b^2 + 1092a^{56}b^3 + 1092a^{55}b^4 + 252a^{54}b^5 + 59a^{53}b^6$ $(a + b)^{59} + (a - b)^{59} = 2(a^{59} + 59a^{57}b^2 + 252a^{56}b^3 + 1092a^{55}b^4 + 252a^{54}b^5 + 59a^{53}b^6)$ $(a + b)^{60} - (a - b)^{60} = 60a^{59}b + 252a^{58}b^2 + 1092a^{57}b^3 + 1092a^{56}b^4 + 252a^{55}b^5 + 60a^{54}b^6$ $(a + b)^{60} + (a - b)^{60} = 2(a^{60} + 60a^{58}b^2 + 252a^{57}b^3 + 1092a^{56}b^4 + 252a^{55}b^5 + 60a^{54}b^6)$ $(a + b)^{61} - (a - b)^{61} = 61a^{60}b + 252a^{59}b^2 + 1092a^{58}b^3 + 1092a^{57}b^4 + 252a^{56}b^5 + 61a^{55}b^6$ $(a + b)^{61} + (a - b)^{61} = 2(a^{61} + 61a^{59}b^2 + 252a^{58}b^3 + 1092a^{57}b^4 + 252a^{56}b^5 + 61a^{55}b^6)$ $(a + b)^{62} - (a - b)^{62} = 62a^{61}b + 252a^{60}b^2 + 1092a^{59}b^3 + 1092a^{58}b^4 + 252a^{57}b^5 + 62a^{56}b^6$ $(a + b)^{62} + (a - b)^{62} = 2(a^{62} + 62a^{60}b^2 + 252a^{59}b^3 + 1092a^{58}b^4 + 252a^{57}b^5 + 62a^{56}b^6)$ $(a + b)^{63} - (a - b)^{63} = 63a^{62}b + 252a^{61}b^2 + 1092a^{60}b^3 + 1092a^{59}b^4 + 252a^{58}b^5 + 63a^{57}b^6$ $(a + b)^{63} + (a - b)^{63} = 2(a^{63} + 63a^{61}b^2 + 252a^{60}b^3 + 1092a^{59}b^4 + 252a^{58}b^5 + 63a^{57}b^6)$ $(a + b)^{64} - (a - b)^{64} = 64a^{63}b + 252a^{62}b^2 + 1092a^{61}b^3 + 1092a^{60}b^4 + 252a^{59}b^5 + 64a^{58}b^6$ $(a + b)^{64} + (a - b)^{64} = 2(a^{64} + 64a^{62}b^2 + 252a^{61}b^3 + 1092a^{60}b^4 + 252a^{59}b^5 + 64a^{58}b^6)$ $(a + b)^{65} - (a - b)^{65} = 65a^{64}b + 252a^{63}b^2 + 1092a^{62}b^3 + 1092a^{61}b^4 + 252a^{60}b^5 + 65a^{59}b^6$ $(a + b)^{65} + (a - b)^{65} = 2(a^{65} + 65a^{63}b^2 + 252a^{62}b^3 + 1092a^{61}b^4 + 252a^{60}b^5 + 65a^{59}b^6)$ $(a + b)^{66} - (a - b)^{66} = 66a^{65}b + 252a^{64}b^2 + 1092a^{63}b^3 + 1092a^{62}b^4 + 252a^{61}b^5 + 66a^{60}b^6$ $(a + b)^{66} + (a - b)^{66} = 2(a^{66} + 66a^{64}b^2 + 252a^{63}b^3 + 1092a^{62}b^4 + 252a^{61}b^5 + 66a^{60}b^6)$ $(a + b)^{67} - (a - b)^{67} = 67a^{66}$

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