

SOLUCIONARIO 2 ESO

MATEMATICAS ANAYA SCRIBD COM

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Solucionario 2º ESO Matemáticas Anaya (Scribd.com)

El solucionario de 2º ESO Matemáticas de Anaya disponible en Scribd.com es un recurso valioso para los estudiantes que buscan ayuda con sus deberes y para los profesores que buscan materiales complementarios. Este artículo presenta una selección de preguntas y respuestas del solucionario para ilustrar su utilidad.

Problema 1: Calcular el área de un rectángulo con una base de 12 cm y una altura de 8 cm.

Respuesta: Área = base x altura = 12 cm x 8 cm = 96 cm²

Problema 2: Hallar el volumen de un prisma rectangular con una longitud de 10 cm, un ancho de 6 cm y una altura de 4 cm.

Respuesta: Volumen = largo x ancho x alto = 10 cm x 6 cm x 4 cm = 240 cm³

Problema 3: Simplificar la expresión $2x + 3y - 4x + 5y$.

Respuesta: $2x + 3y - 4x + 5y = -2x + 8y$

Problema 4: Resolver la ecuación $3x + 5 = 14$.

Respuesta: $3x = 9$, $x = 9/3 = 3$

Problema 5: Traducir la siguiente frase a lenguaje matemático: El triple de un número aumentado en 5 es igual a 14.

Respuesta: $3x + 5 = 14$

Soal dan Pembahasan OSN Matematika SMA 2013

Soal 1:

Diketahui fungsi $f(x) = x^3 - 3x^2 + 2x + 1$. Tentukan nilai minimum dan nilai maksimum fungsi $f(x)$ pada interval $[0, 2]$.

Pembahasan 1:

1. Cari turunan pertama dari $f(x)$: $f'(x) = 3x^2 - 6x + 2$
2. Tentukan titik kritis dengan mencari nilai x yang membuat $f'(x) = 0$:
 - $3x^2 - 6x + 2 = 0$
 - $(3x - 1)(x - 2) = 0$
 - $x = 1/3$ atau $x = 2$
3. Evaluasi nilai $f(x)$ pada titik kritis dan titik batas interval:
 - $f(0) = 1$
 - $f(1/3) = 2,429$
 - $f(2) = 3$
4. Nilai minimum adalah 1 dan nilai maksimum adalah 3.

Soal 2:

Tiga buah lingkaran dengan jari-jari 1 cm, 2 cm, dan 3 cm disusun sedemikian rupa sehingga lingkaran yang paling kecil berada di dalam lingkaran yang lebih besar dan seterusnya. Tentukan luas daerah yang tidak termasuk dalam lingkaran mana pun.

Pembahasan 2:

1. Luas daerah yang tidak termasuk dalam lingkaran terkecil adalah luas lingkaran tengah dikurangi luas lingkaran terkecil: $\pi(2^2) - \pi(1^2) = 3\pi \text{ cm}^2$
2. Luas daerah yang tidak termasuk dalam lingkaran tengah adalah luas lingkaran besar dikurangi luas lingkaran tengah: $\pi(3^2) - \pi(2^2) = 5\pi \text{ cm}^2$

3. Luas daerah yang tidak termasuk dalam lingkaran mana pun adalah jumlah dari kedua luas daerah di atas: $3\pi + 5\pi = 8\pi \text{ cm}^2$.

Soal 3:

Terdapat 5 bilangan bulat positif yang berbeda. Jumlah dari 3 bilangan terkecil adalah 15, sedangkan jumlah dari 3 bilangan terbesar adalah 21. Tentukan jumlah dari kelima bilangan tersebut.

Pembahasan 3:

1. Misalkan bilangan-bilangan tersebut adalah a, b, c, d , dan e , dengan $a < b < c < d < e$.
2. Dari informasi yang diberikan, kita memiliki:
 - $a + b + c = 15$
 - $d + e + c = 21$
3. Jumlah dari kelima bilangan tersebut adalah:
 - $a + b + c + d + e = (a + b + c) + (d + e + c)$
 - $= 15 + 21$
 - $= 36$

Soal 4:

Diberikan fungsi $g(x) = (x - 1)(x^2 - 2x + 3)$. Tentukan nilai minimum dari $g(x)$ pada interval $[-1, 3]$.

Pembahasan 4:

1. Cari turunan pertama dari $g(x)$: $g'(x) = 3x^2 - 8x + 4$
2. Tentukan titik kritis dengan mencari nilai x yang membuat $g'(x) = 0$:
 - $3x^2 - 8x + 4 = 0$
 - $(3x - 2)(x - 2) = 0$
 - $x = 2/3$ atau $x = 2$

3. Evaluasi nilai $g(x)$ pada titik kritis dan titik batas interval:

- $g(-1) = -2$
- $g(2/3) = -1,944$
- $g(2) = 0$
- $g(3) = 8$

4. Nilai minimum adalah $-2,944$, yang terjadi pada $x = 2/3$.

Soal 5:

Terdapat sebuah kubus dengan panjang rusuk 10 cm. Pada setiap titik sudut kubus dibuat sebuah bola dengan diameter 4 cm. Tentukan volume bagian kubus yang tidak termasuk dalam bola-bola tersebut.

Pembahasan 5:

1. Volume kubus adalah $10^3 = 1000 \text{ cm}^3$.
2. Volume satu bola adalah $\frac{4}{3}\pi(2^3) = 33,49 \text{ cm}^3$.
3. Volume 8 bola adalah $8 \times 33,49 = 267,92 \text{ cm}^3$.
4. Volume bagian kubus yang tidak termasuk dalam bola-bola tersebut adalah
????? kubus - volume 8 bola = $1000 \text{ cm}^3 - 267,92 \text{ cm}^3 = 732,08 \text{ cm}^3$.

What is the most popular version of Georgia On My Mind? In 1960, Ray Charles, a native of Georgia, recorded a version of the song that went to No. 1 on the Billboard magazine Hot 100. Charles' hit rendition would become the most widely-known version of the tune from this time on. It would also be the song most associated with his musical career.

What is the significance of the song Georgia On My Mind? He sang about the state of Georgia where he grew up, a segregationist state whose racist policies he was still subject to at the time. Sixty years later, in the midst of the American election campaign, the song he made famous still resonates in people's minds...

Why was Ray Charles not allowed to play in Georgia? This Day in Black History: March 7, 1979 The state of Georgia honored and issued a formal apology to musician and composer Ray Charles on March 7, 1979. In 1961 Charles refused to perform at a concert that was segregated and was fined by an Atlanta court.

Is Georgia On My Mind the state song of Georgia? Ray Charles addresses the Georgia Legislature in 1979, after his rendition of "Georgia On My Mind," a number-one hit in 1960, was named the official state song of Georgia.

Who is famous for singing Georgia On My Mind? "Georgia on My Mind" was written in 1930 by Carmichael with his roommate, lyricist Stuart Gorrell. Thirty years later, Ray Charles had a Number One pop hit with it, and remains the artist most closely associated with the wistful tune.

Which version of Always On My Mind most popular? Willie Nelson recorded and released the song in early 1982. It raced to number one on Billboard's Hot Country Singles chart that May, spending two weeks on top and a total of 21 weeks on the chart.

Is the song Georgia On My Mind about a woman? In 1930, Carmichael wrote the music and Stuart Gorrell the lyrics to a song some think is about Carmichael's sister Georgia—the lyrics are ambiguous enough to be about a woman or a place—but Hoagy later confirmed it was about our state.

When did Ray Charles go blind? Ray Charles did not lose his sight until he was about seven years old. Years later, doctors suggested that juvenile glaucoma had caused his blindness. But Charles always maintained that his visual impairment never hindered his career in any way.

What movie is Georgia On My Mind in? This #MichaelMonday I have Georgia On My Mind! This song was in the movie Meet Wally Sparks, which came out 25 years ago today?

How many biological children did Ray Charles have? Throughout his 73 years of life, Ray Charles had 12 children with ten different women. The women who mothered the musical icon's kids are Louise Flowers Margie Hendrick, Mae Mosley Lyles, Sandra Jean Betts, Mary Chantal Bertrand, Arlette Kotchounian, Gloria Moffett and Mary Anne den Bok.

What was Ray Charles accused of? In 1958, Charles was arrested on a Harlem street corner for possession of narcotics and equipment for administering heroin. Charles was arrested on a narcotics charge on November 14, 1961, while waiting in

an Indiana hotel room before a performance. The detectives seized heroin, marijuana, and other items.

Why did Ray Charles drop his last name? After his move to Seattle, Washington, in 1948 to pursue better career opportunities on the West Coast, Charles's show-business persona began to emerge. He dropped his last name to avoid possible confusion with the well-known boxer Sugar Ray Robinson.

Who wrote the song Georgia On My Mind Ray Charles? Songwriter and bandleader Hoagy Carmichael wrote Georgia On My Mind in 1930, while he was living in New York. The story goes that he and his room-mate, a banker named Stuart Gorrell, were looking out of the window at the wet weather and decided to write a song together about the warmer southern state.

Who sang Georgia On My Mind at Willie Nelson's 90th birthday? 9:18pm – Jamey Johnson and Warren Haynes perform “Georgia On My Mind.” From the first word Jamey sings, the audience goes wild.

Is Georgia On My Mind in the public domain? For example, if you want to search for the song "Georgia On My Mind" by Ray Charles, enter the search phrase "Georgia On My Mind Song" to help you locate the year the song was published. If the publication date is before 1925, the song is likely to be in the public domain.

Did Ray Charles ever play in Georgia again? The promoter sued Charles for that position against segregation. He often returned to Georgia to perform throughout the 1960s and 1970s. The Georgia State Legislature completed the finality when his version of "Georgia on My Mind" was adopted as the official state song.

Did Willie Nelson perform Georgia On My Mind?

Is Georgia On My Mind still the state song? The state song that's on everyone's mind (WSAV) — The southern staple “Georgia On My Mind” has been the official state song for the Peach State since 1979. It was originally written for a Broadway musical by Hoagy Carmichael and Stuart Gorrell in 1930.

What song did Willie Nelson write for Elvis Presley? The Texas native has written some of music's most important titles, from “Crazy,” made famous by Patsy Cline, to “Funny How Times Slips Away,” covered by Elvis Presley.

Who first sang "Always on my mind"? "Always on My Mind" is a 1972 song originally recorded by Brenda Lee, later covered by Elvis Presley, Willie Nelson, Pet Shop Boys, and other artists.

Did Willie Nelson meet Elvis? According to Fox News, Willie said in 2018: "Yeah, I met [Elvis] a couple of times. He did Always on My Mind and Night Life."

Did Ray Charles write his own songs? By the early 1960s, after writing many R&B classics, Ray Charles had virtually given up writing his own songs, choosing instead to interpret songs of many different styles written by others.

What was Ray Charles hit in 1960? Ray Charles received a GRAMMY® Nomination for Best Vocal Performance Single Record or Track Male for "Georgia On My Mind." Ray Charles received a GRAMMY Nomination for Best Performance by a Pop/Rock/Contemporary Single Artist for "Georgia On My Mind."

Who is the female singer named Georgia? Georgia Barnes, known mononymously as Georgia, is an English record producer, songwriter, singer, rapper and drummer. The daughter of Leftfield cofounder Neil Barnes, Georgia began her music career as a drummer for artists such as Kwes and Kae Tempest.

How many versions of Georgia On My Mind are there?

What made where is my mind popular? After being featured in the 1999 film Fight Club (in which the song plays over the final scene), the song gained an even wider audience. "Where Is My Mind?" was voted number 29 in the "Hottest 100 of All Time" music poll conducted by Australian radio station Triple J in 2009.

Who sang Georgia On My Mind at Willie Nelson's 90th birthday? 9:18pm – Jamey Johnson and Warren Haynes perform "Georgia On My Mind." From the first word Jamey sings, the audience goes wild.

Who is the most popular singer in Georgia? The most famous living Georgian singers include Valery Meladze, Katie Melua, and Tamta. The most famous deceased Georgian singers include Rashid Behbudov, Haykanoush Danielyan, and Lusine Zakaryan.

Who wrote the original Always on My Mind? "Always on My Mind" is a 1972 ballad written by Wayne Carson and first released by Brenda Lee for her studio album Brenda.

Who wrote the lyrics to Georgia On My Mind? But the music for "Georgia On My Mind" was written by Hoagy Carmichael. Stuart Gorell wrote the lyrics. Carmichael recorded it September 15, 1930. Neither Carmichael nor Gorell were from Georgia.

Did Ray Charles write his own songs? By the early 1960s, after writing many R&B classics, Ray Charles had virtually given up writing his own songs, choosing instead to interpret songs of many different styles written by others.

What inspired Georgia on my mind? In 1930, Carmichael wrote the music and Stuart Gorell the lyrics to a song some think is about Carmichael's sister Georgia—the lyrics are ambiguous enough to be about a woman or a place—but Hoagy later confirmed it was about our state.

Who first recorded You Were on My Mind? "You Were on My Mind" is a popular song written by Sylvia Fricker in 1961. It was originally recorded by Ian & Sylvia, but better known versions were recorded by We Five and Crispian St. Peters.

Who originally made Where Is My Mind? On this day, March 21st 1988, Pixies released their debut album Surfer Rosa. Where Is My Mind, although never released as a single is one of the bands signature songs from the album...!

Who sang Georgia On My Mind in 1960? Georgia-born legend Ray Charles made an instant hit out of "Georgia on My Mind" with his 1960 rendition, a version that would later be used as Georgia's official state song. After Charles' success, the song became regularly covered by the likes of Ella Fitzgerald, The Band, and Willie Nelson.

Is Georgia On My Mind still the state song? The state song that's on everyone's mind (WSAV) — The southern staple "Georgia On My Mind" has been the official state song for the Peach State since 1979. It was originally written for a Broadway musical by Hoagy Carmichael and Stuart Gorell in 1930.

Who played the piano at Willie Nelson's 90th birthday? Norah Jones, who's performed with Nelson's band often over the years, played a pair including the piano instrumental "Down Yonder" in tribute to Nelson's late sister Bobbie Nelson, who was the piano player in his band for nearly 50 years until her death at 91 in 2022.

Who is number 1 singer of all time? In January 2023, Rolling Stone announced American singer, songwriter, and pianist Aretha Franklin as the greatest singer of all time. Following the global success of her 1967 single "Respect," the Queen of Soul established herself as the greatest ever pop, rock, and soul vocalist.

What is the most listened to song in Georgia? The selection of the most popular artists (Mostplays) took place on February 4, 2022. The results look like this - "Dagdagani" is the most popular local singer during the year, and LOUDspeakers' song "World in my eyes" is the most listened song in Georgia.

Who is the most recognizable singer in the world?

Strategic Management by Frank T. Rothaermel

What is Strategic Management?

Strategic management is the process of developing and implementing long-term plans that guide an organization towards its desired future state. It involves analyzing the internal and external environment, setting objectives, formulating strategies, and allocating resources to achieve those objectives.

What is the Importance of Strategic Management?

Strategic management helps organizations to:

- Define their purpose and values
- Identify and capitalize on opportunities
- Manage risks and threats
- Make informed decisions that lead to sustainable growth and profitability

What are the Key Steps in the Strategic Management Process?

According to Frank T. Rothaermel, the strategic management process involves the following key steps:

- Environmental scanning
- Defining the mission, vision, and values
- Establishing strategic objectives
- Formulating strategic alternatives
- Evaluating and selecting strategies
- Implementation
- Control

What are the Common Challenges in Strategic Management?

Organizations may face various challenges in implementing strategic management, including:

- Lack of clarity in strategic objectives
- Insufficient resources or capabilities
- Environmental uncertainty
- Resistance to change from internal or external stakeholders

How can Organizations Overcome Strategic Management Challenges?

To overcome these challenges, organizations should focus on:

- Engaging in continuous environmental scanning and scenario planning
- Developing a clear and compelling strategic vision
- Allocating resources effectively and efficiently
- Cultivating a culture of innovation and adaptability
- Monitoring and evaluating progress regularly to make necessary adjustments

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