

# SOLUTION TO EXERCISE 3 IN MURACH S JAVA PROGRAMMING BOOK

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### Solution to Exercise 3 in Murach's Java Programming Book

#### Question:

Exercise 3 of "Murach's Java Programming" book asks the reader to write a program that displays the average of three test scores. The program should prompt the user to enter each score and calculate the average.

#### Answer:

```
import java.util.Scanner;

public class AverageCalculator {

    public static void main(String[] args) {
        Scanner input = new Scanner(System.in);

        // Get the three test scores from the user
        System.out.print("Enter the first test score: ");
        int score1 = input.nextInt();

        System.out.print("Enter the second test score: ");
        int score2 = input.nextInt();

        System.out.print("Enter the third test score: ");
        int score3 = input.nextInt();
```

```

        // Calculate the average of the three scores
        double average = (score1 + score2 + score3) / 3.0;

        // Display the average to the user
        System.out.println("The average of the three test scores is: " +
    }
}

```

### Explanation:

The program starts by creating a `Scanner` object to read input from the user. It then prompts the user to enter the three test scores. The scores are stored in integer variables named `score1`, `score2`, and `score3`.

Next, the program calculates the average of the three scores using the formula  $(\text{score1} + \text{score2} + \text{score3}) / 3.0$ . The average is a `double` because it can contain a decimal value.

Finally, the program displays the average to the user using the `System.out.println()` method.

### Output:

When the program is run, it will output the following:

```

Enter the first test score: 90
Enter the second test score: 85
Enter the third test score: 95
The average of the three test scores is: 90.0

```

### Additional Notes:

- The program could be extended to allow the user to enter any number of test scores.
- The program could also be extended to calculate the median or mode of the test scores.
- The program could be further enhanced by adding error checking to ensure that the user enters valid test scores.

## Master Calculus with Stewart's Essential Calculus

James Stewart's "Essential Calculus: Early Transcendentals" is a renowned textbook that has guided countless students through the complexities of calculus. This comprehensive guide explores the fundamental concepts and applications of calculus, empowering learners with a solid foundation in the subject.

### Q: Why choose Stewart's Essential Calculus?

**A:** Stewart's renowned writing style makes complex mathematical concepts accessible and engaging. The text's clear explanations, numerous examples, and practice problems foster a deep understanding of the subject matter. Moreover, the book's up-to-date content and real-world applications keep learners connected to the practical relevance of calculus.

### Q: Are there supplementary materials available?

**A:** Yes, Stewart's Essential Calculus is complemented by a range of supplementary materials, including online homework systems, tutorials, and interactive simulations. These resources provide additional support and practice opportunities, enabling learners to reinforce their comprehension and develop problem-solving skills.

### Q: What are the key features of the textbook?

**A:** Essential Calculus incorporates several key features that enhance learning:

- **Clear and precise explanations:** Stewart presents complex concepts in a straightforward and easy-to-understand manner.
- **Numerous examples:** The text is replete with worked-out examples that illustrate the concepts and techniques discussed.
- **Practice problems:** Each chapter features a multitude of practice problems, ranging from basic to challenging, allowing learners to test their understanding and build problem-solving proficiency.
- **Applications to real-world problems:** The book seamlessly integrates calculus into various disciplines, demonstrating its practical significance.

### Q: How can Essential Calculus help me succeed in my calculus course?

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**A:** By utilizing Stewart's Essential Calculus, learners can reap numerous benefits:

- **Strong theoretical foundation:** The text provides a rigorous and thorough coverage of calculus fundamentals.
- **Enhanced problem-solving skills:** The abundance of practice problems fosters the development of critical thinking and problem-solving abilities.
- **Practical applications:** The real-world examples help learners appreciate the relevance and value of calculus in various fields.
- **Improved test scores:** The comprehensive coverage and abundance of practice opportunities contribute to improved performance on exams.

## Conclusion

James Stewart's Essential Calculus: Early Transcendentals is an indispensable tool for students seeking to excel in calculus. With its clear explanations, engaging examples, and practical applications, the textbook empowers learners to master the subject and apply it to real-world problems. By embracing this renowned resource, students can confidently navigate the challenges of calculus and unlock the boundless possibilities it offers.

## Tangent Ratio Worksheet Answers

The tangent ratio is a trigonometric function that measures the slope of a line in a right triangle. It is defined as the ratio of the length of the opposite side to the length of the adjacent side.

### Questions:

1. Find the tangent of angle A in a right triangle with opposite side length 6 and adjacent side length 8.
  2. Find the tangent of angle B in a right triangle with opposite side length 10 and adjacent side length 15.
  3. Find the tangent of angle C in a right triangle with opposite side length 12 and adjacent side length 5.
  4. Find the angle whose tangent is 0.5.
  5. Find the angle whose tangent is 1.
-

**Answers:**

1.  $\tan(A) = 6/8 = 0.75$
2.  $\tan(B) = 10/15 = 0.6667$
3.  $\tan(C) = 12/5 = 2.4$
4. Angle whose tangent is 0.5:  $26.57^\circ$
5. Angle whose tangent is 1:  $45^\circ$

**What happened in Act 4 of The Crucible quizlet?** John signs the confession, but when he finds out that it will be hung up, he tears up the paper, which means he tears up his confession. Because he has not confessed, he will be hung. He does this because he does not want Danforth and the court to use him as proof that the witch craft was real.

**What are the main ideas in Act 4 of The Crucible?** The Crucible Act 4 summary centers around the themes of remorse, forgiveness, and piety as the people of Salem grapple with the terrible events that have taken place in their town.

**What happened to Giles Act 4 of The Crucible?** Everyone leaves the room to allow Elizabeth and Proctor privacy. Elizabeth tells Proctor that almost one hundred people have confessed to witchcraft. She relates that Giles was killed by being pressed to death by large stones, though he never pleaded guilty or not guilty to the charges against him.

**Who still has not confessed besides John?** But Elizabeth was not among them. Like John, she had refused to confess, but she had been granted a reprieve because she was pregnant. As the court did in such cases (there was one other in 1692), it agreed to postpone Elizabeth's execution until after the birth of her child.

**What is the main conflict in Act 4 of The Crucible?** In Act 4 of "The Crucible" Parris wants to postpone the hanging to save him from the angry citizens of Salem. Hale returns and tells the court that all the witchcraft hysteria was all a lie. The court refuses to listen to Parris or Hale, and wants a confession out of John Proctor.

**What happens to Abigail in Act 4 in The Crucible?** Parris also tells Danforth that Abigail and Mercy Lewis have disappeared. Abigail robbed Parris, and he believes she and Mercy boarded a ship. Danforth and Parris discuss a recent rebellion in

Andover. Parris worries that the people of Salem will throw out the court, as the people in Andover did.

**What does Act 4 symbolize in The Crucible?** One could argue that the characters of John Proctor and Rebecca Nurse symbolically represent truth, justice, and righteousness in act four as they courageously challenge the corrupt witch trials. They willingly sacrifice their lives with the hopes of disbanding the unjust court and saving their innocent neighbors.

**What happens to Tituba in The Crucible Act 4?** The court has already executed twelve people from Salem, and has scheduled seven more to die today. Although Tituba was told in Act I that she would be spared if she revealed her alliance with the Devil, along with her knowledge of other individuals "in truck" with the Devil, she has in fact been imprisoned.

**What is the climax of The Crucible Act 4?** The Salem jail is the setting of The Crucible in Act IV. John's refusal to sign the confession provides the moment of climax in The Crucible, Act IV. In The Crucible, Act IV, the theme that one's honor cannot be signed away is demonstrated by John's destruction of the confession.

**What surprising thing has Abigail done in Act 4?** What did Abigail do? Abigail stole money from Parris and disappeared, reportedly left on a ship. Parris says, "You cannot hang this sort."

**What does Hale want Elizabeth to do in Act 4?** Hale summons Elizabeth. He asks her to convince Proctor to admit his guilt so that the court will not hang him. Elizabeth agrees to speak with him.

**What does Giles Corey do in Act 4 of The Crucible?** In Act IV of The Crucible, Giles Corey is tortured to death. Heavy stones were placed on him until he was crushed. He refused to confess to witchcraft or deny the charge because if he did, his sons wouldn't be able to inherit his farmland.

**Who was hanged in The Crucible Act 4?** He thinks Danforth is using his name to justify murders and make the court look good. What happens to John Proctor? He confesses that he isn't a witch and is hanged. He felt this is the only way he would come to peace within himself.

**What is Hale's reason for returning to Salem in Act 4?** Short Answer. Hale has returned to Salem in Act 4 because he recognizes himself as the original instigator of the ultimately unfounded witch hysteria, and he doesn't want to end up with the blood of innocent people on his hands (or at least innocent people who are widely respected like Rebecca Nurse and John Proctor).

**What is John's excuse for confessing in Act 4?** John Proctor's excuse for confessing is that he wants his life (he doesn't want to be hanged, he wants to keep living). He knows he would be lying and would be committing a sin, but at least he will get more time to live on earth with his wife and children.

**What will happen in Act 4 of The Crucible?** Proctor tears up his confession. He finally decides he does have some decency within him, and it will be manifested in this final sacrifice. Danforth orders the hangings to commence. Parris and Hale beg Elizabeth to convince John to reconsider as John and Rebecca are led off to the gallows.

**Why is Parris upset in Act 4?** Why is Parris upset? When Abigail left, she stole all his savings (money) and this has made him penniless. More than that, though, he seems to fear a rebellion if all the accused are hanged; most of those arrested are all highly respected people in the town.

**Who is the tragic hero and why in Crucible Act 4?** John Proctor is the tragic hero. He is a hero because in the end he stands true to his beliefs and his philosophies, but in doing so he is condemned to hang.

**What problem did Abigail face in Act 4?** In Act 4 it's revealed that Abigail has run away and stolen money from her uncle (and so her reputation takes a hit in her absence), but since she is no longer in Salem, it doesn't really matter for her. Abigail's goals seem to change over the course of the play.

**What happened in Andover in The Crucible Act 4?** In Andover, there was an uprising from the citizens who recognized that the trial was a sham. They threw out the court and saved the lives of those accused of witchcraft. Danforth and Judge Hawthorne are aware of these events and do not want the same to happen in Salem.

**Who is Danforth in The Crucible Act 4?** Judge Thomas Danforth was a successful, intelligent, and highly respected Puritan judge in the 1600s - it was his job to oversee the persecution of accused witches during the Salem witch trials. He was delusional, authoritative, and arrogant: he believed that his word was final and the only one that matters.

**What happened in Scene 4 of The Crucible?** Proctor confesses orally to witchcraft, but refuses to implicate anyone else. Danforth informs him that the court needs proof of his confession in the form of a signed, written testimony. Proctor confesses verbally to witchcraft, and Rebecca Nurse hears the confession.

**Where was Act 4 in The Crucible?** This act takes place in a jail cell in Salem. Marshal Herrick wakes up the occupants, Sarah Good and Tituba, to move them to a different cell.

**What happens in Act 4 Scene 1 of The Crucible?** Act IV begins in the Salem jail. Marshall Herrick wakes up Sarah Good and Tituba to move them to a different cell. Sarah and Tituba tell Herrick that they are waiting for the Devil. They plan to fly to Barbados with the Devil.

**What is the climax of The Crucible Act 4?** The Salem jail is the setting of The Crucible in Act IV. John's refusal to sign the confession provides the moment of climax in The Crucible, Act IV. In The Crucible, Act IV, the theme that one's honor cannot be signed away is demonstrated by John's destruction of the confession.

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