

# CHAPTER ONE

## Solutions for Section 1.1

### Exercises

1. Since  $t$  represents the number of years since 2010, we see that  $t = 5$  represents the population of the city in 2015. In 2015, the city's population was 7 million.
2. Since  $t = t(t)$  we see that  $t(200)$  is the value of  $t$  when  $t = 200$ ; that is, the thickness of pelican eggs when the concentration of PCBs is 200 ppm.
3. If there are no workers, there is no productivity, so the graph goes through the origin. At first, as the number of workers increases, productivity also increases. As a result, the curve goes up initially. At a certain point the curve reaches its highest level, after which it goes downward; in other words, as the number of workers increases beyond that point, productivity decreases. This might, for example, be due either to the inefficiency inherent in large organizations or simply to workers getting in each other's way as too many are crammed on the same line. Many other reasons are possible.
4. The slope is  $(1 - 0)/(1 - 0) = 1$ . So the equation of the line is  $y = x$ .
5. The slope is  $(3 - 2)/(2 - 0) = 1/2$ . So the equation of the line is  $y = (1/2)x + 2$ .
6. The slope is

$$\text{Slope} = \frac{3 - 1}{2 - (-2)} = \frac{2}{4} = \frac{1}{2}.$$

Now we know that  $y = (1/2)x + 2$ . Using the point  $(-2, 1)$  we have  $1 = -2/2 + 2$ , which yields  $2 = 2$ . Thus, the equation of the line is  $y = (1/2)x + 2$ .

7. The slope is  $\frac{6 - 0}{2 - (-1)} = 2$ . So the equation of the line is  $6 = 2(x - 0) + b$ , which yields  $b = 4$ . Thus, the equation of the line is  $y = 2x + 4$ .
8. Rewriting the equation as  $y = -\frac{5}{2}x + 4$  shows that the slope is  $-\frac{5}{2}$  and the vertical intercept is 4.
9. Rewriting the equation as

$$x = \frac{12}{7}y + \frac{2}{7}$$

shows that the line has slope  $7/12$  and vertical intercept  $2/7$ .

10. Rewriting the equation of the line as

$$\begin{aligned} -x &= \frac{-2}{4}x - 2 \\ x &= \frac{1}{2}x + 2, \end{aligned}$$

we see the line has slope  $1/2$  and vertical intercept 2.

11. Rewriting the equation of the line as

$$\begin{aligned} x &= \frac{12}{6}x - \frac{4}{6} \\ x &= 2x - \frac{2}{3} \end{aligned}$$

we see that the line has slope 2 and vertical intercept  $2/3$ .

12. (a) is (IV), because slope is positive, vertical intercept is negative  
 (b) is (IV), because slope is negative, vertical intercept is positive  
 (c) is (I), because slope and vertical intercept are both positive  
 (d) is (IV), because slope and vertical intercept are both negative  
 (e) is (II), because slope and vertical intercept are both positive  
 (f) is (III), because slope is positive, vertical intercept is



# Multivariable Calculus 7th Edition Solutions

**Huangqi Zhang**



## **Multivariable Calculus 7th Edition Solutions:**

Multivariable Calculus 7th Edition Solutions: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have enthralled audiences this year. Multivariable Calculus 7th Edition Solutions : Colleen Hoover "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Multivariable Calculus 7th Edition Solutions : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and gripping novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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