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QUESTION 11: The following information pertains to the operations of the company during the current period:

	Dollars	Units
Revenue	1,000,000	200,000
Variable Costs	600,000	200,000
Fixed Costs	300,000	200,000

Required: Compute the contribution margin per unit and the contribution margin ratio.

ANSWER: The contribution margin per unit is  $\frac{1,000,000 - 600,000}{200,000} = 2$  and the contribution margin ratio is  $\frac{1,000,000 - 600,000}{1,000,000} = 40\%$ .

QUESTION 12: The following information pertains to the operations of the company during the current period:

	Dollars	Units
Revenue	1,000,000	200,000
Variable Costs	600,000	200,000
Fixed Costs	300,000	200,000

Required: Compute the contribution margin per unit and the contribution margin ratio.

ANSWER: The contribution margin per unit is  $\frac{1,000,000 - 600,000}{200,000} = 2$  and the contribution margin ratio is  $\frac{1,000,000 - 600,000}{1,000,000} = 40\%$ .

QUESTION 13: The following information pertains to the operations of the company during the current period:

	Dollars	Units
Revenue	1,000,000	200,000
Variable Costs	600,000	200,000
Fixed Costs	300,000	200,000

Required: Compute the contribution margin per unit and the contribution margin ratio.

ANSWER: The contribution margin per unit is  $\frac{1,000,000 - 600,000}{200,000} = 2$  and the contribution margin ratio is  $\frac{1,000,000 - 600,000}{1,000,000} = 40\%$ .

QUESTION 14: The following information pertains to the operations of the company during the current period:

	Dollars	Units
Revenue	1,000,000	200,000
Variable Costs	600,000	200,000
Fixed Costs	300,000	200,000

Required: Compute the contribution margin per unit and the contribution margin ratio.

ANSWER: The contribution margin per unit is  $\frac{1,000,000 - 600,000}{200,000} = 2$  and the contribution margin ratio is  $\frac{1,000,000 - 600,000}{1,000,000} = 40\%$ .

QUESTION 15: The following information pertains to the operations of the company during the current period:

	Dollars	Units
Revenue	1,000,000	200,000
Variable Costs	600,000	200,000
Fixed Costs	300,000	200,000

Required: Compute the contribution margin per unit and the contribution margin ratio.

ANSWER: The contribution margin per unit is  $\frac{1,000,000 - 600,000}{200,000} = 2$  and the contribution margin ratio is  $\frac{1,000,000 - 600,000}{1,000,000} = 40\%$ .



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$\mathcal{D} = \{z \in \mathbb{C} : \operatorname{Re} z < 0\}$

The boundary of  $\mathcal{D}$  is the imaginary axis  $\{z \in \mathbb{C} : \operatorname{Re} z = 0\}$ . The boundary is oriented counter-clockwise, which means that the boundary is traversed from the negative imaginary axis to the positive imaginary axis.

**A** Let  $f(z) = \frac{1}{z^2}$ . The function  $f$  is analytic in  $\mathcal{D}$  and its boundary. The integral of  $f$  over the boundary is
 
$$\int_{\partial \mathcal{D}} \frac{1}{z^2} dz = \int_{-\infty}^{\infty} \frac{1}{(iy)^2} i dy = \int_{-\infty}^{\infty} -\frac{1}{y^2} dy$$
 which diverges. Therefore, the integral of  $f$  over the boundary does not exist.

**B** Let  $f(z) = \frac{1}{z}$ . The function  $f$  is analytic in  $\mathcal{D}$  and its boundary. The integral of  $f$  over the boundary is
 
$$\int_{\partial \mathcal{D}} \frac{1}{z} dz = \int_{-\infty}^{\infty} \frac{1}{iy} i dy = \int_{-\infty}^{\infty} \frac{1}{y} dy$$
 which also diverges.

**C** Let  $f(z) = \frac{1}{z^3}$ . The function  $f$  is analytic in  $\mathcal{D}$  and its boundary. The integral of  $f$  over the boundary is
 
$$\int_{\partial \mathcal{D}} \frac{1}{z^3} dz = \int_{-\infty}^{\infty} \frac{1}{(iy)^3} i dy = \int_{-\infty}^{\infty} -\frac{1}{y^3} dy$$
 which diverges.

**D** Let  $f(z) = \frac{1}{z^4}$ . The function  $f$  is analytic in  $\mathcal{D}$  and its boundary. The integral of  $f$  over the boundary is
 
$$\int_{\partial \mathcal{D}} \frac{1}{z^4} dz = \int_{-\infty}^{\infty} \frac{1}{(iy)^4} i dy = \int_{-\infty}^{\infty} \frac{1}{y^4} dy$$
 which diverges.

**E** Let  $f(z) = \frac{1}{z^5}$ . The function  $f$  is analytic in  $\mathcal{D}$  and its boundary. The integral of  $f$  over the boundary is
 
$$\int_{\partial \mathcal{D}} \frac{1}{z^5} dz = \int_{-\infty}^{\infty} \frac{1}{(iy)^5} i dy = \int_{-\infty}^{\infty} -\frac{1}{y^5} dy$$
 which diverges.

**F** Let  $f(z) = \frac{1}{z^6}$ . The function  $f$  is analytic in  $\mathcal{D}$  and its boundary. The integral of  $f$  over the boundary is
 
$$\int_{\partial \mathcal{D}} \frac{1}{z^6} dz = \int_{-\infty}^{\infty} \frac{1}{(iy)^6} i dy = \int_{-\infty}^{\infty} \frac{1}{y^6} dy$$
 which diverges.

**G** Let  $f(z) = \frac{1}{z^7}$ . The function  $f$  is analytic in  $\mathcal{D}$  and its boundary. The integral of  $f$  over the boundary is
 
$$\int_{\partial \mathcal{D}} \frac{1}{z^7} dz = \int_{-\infty}^{\infty} \frac{1}{(iy)^7} i dy = \int_{-\infty}^{\infty} -\frac{1}{y^7} dy$$
 which diverges.

**H** Let  $f(z) = \frac{1}{z^8}$ . The function  $f$  is analytic in  $\mathcal{D}$  and its boundary. The integral of  $f$  over the boundary is
 
$$\int_{\partial \mathcal{D}} \frac{1}{z^8} dz = \int_{-\infty}^{\infty} \frac{1}{(iy)^8} i dy = \int_{-\infty}^{\infty} \frac{1}{y^8} dy$$
 which diverges.

**I** Let  $f(z) = \frac{1}{z^9}$ . The function  $f$  is analytic in  $\mathcal{D}$  and its boundary. The integral of  $f$  over the boundary is
 
$$\int_{\partial \mathcal{D}} \frac{1}{z^9} dz = \int_{-\infty}^{\infty} \frac{1}{(iy)^9} i dy = \int_{-\infty}^{\infty} -\frac{1}{y^9} dy$$
 which diverges.

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Let  $\mathcal{D}$  be the ring of differential operators on  $\mathbb{A}^n$ . For  $\mathcal{D}$ -modules  $\mathcal{M}, \mathcal{N}$ , we define  $\mathcal{M} \otimes_{\mathcal{D}} \mathcal{N}$  to be the  $\mathcal{D}$ -module with underlying  $\mathcal{O}_X$ -module  $\mathcal{M} \otimes_{\mathcal{O}_X} \mathcal{N}$  and with the action of  $\mathcal{D}$  given by  $(D, m \otimes n) \mapsto Dm \otimes n + m \otimes Dn$ . For  $\mathcal{D}$ -modules  $\mathcal{M}, \mathcal{N}$ , we define  $\mathcal{M} \otimes_{\mathcal{D}} \mathcal{N}$  to be the  $\mathcal{D}$ -module with underlying  $\mathcal{O}_X$ -module  $\mathcal{M} \otimes_{\mathcal{O}_X} \mathcal{N}$  and with the action of  $\mathcal{D}$  given by  $(D, m \otimes n) \mapsto Dm \otimes n + m \otimes Dn$ . For  $\mathcal{D}$ -modules  $\mathcal{M}, \mathcal{N}$ , we define  $\mathcal{M} \otimes_{\mathcal{D}} \mathcal{N}$  to be the  $\mathcal{D}$ -module with underlying  $\mathcal{O}_X$ -module  $\mathcal{M} \otimes_{\mathcal{O}_X} \mathcal{N}$  and with the action of  $\mathcal{D}$  given by  $(D, m \otimes n) \mapsto Dm \otimes n + m \otimes Dn$ .

**T** For  $\mathcal{D}$ -modules  $\mathcal{M}, \mathcal{N}$ , we have  $(\mathcal{M} \otimes_{\mathcal{D}} \mathcal{N}) \otimes_{\mathcal{D}} \mathcal{P} \cong \mathcal{M} \otimes_{\mathcal{D}} (\mathcal{N} \otimes_{\mathcal{D}} \mathcal{P})$ . For  $\mathcal{D}$ -modules  $\mathcal{M}, \mathcal{N}$ , we have  $(\mathcal{M} \otimes_{\mathcal{D}} \mathcal{N}) \otimes_{\mathcal{D}} \mathcal{P} \cong \mathcal{M} \otimes_{\mathcal{D}} (\mathcal{N} \otimes_{\mathcal{D}} \mathcal{P})$ .

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谓词逻辑推理规则. 设  $\mathcal{D}$  为任一谓词逻辑解释,  $\mathcal{D} \models \mathcal{A}$  表示  $\mathcal{A}$  在  $\mathcal{D}$  中为真,  $\mathcal{D} \models \mathcal{B}$  表示  $\mathcal{B}$  在  $\mathcal{D}$  中为真. 则

1.  $\mathcal{D} \models \mathcal{A} \rightarrow \mathcal{B}$  当且仅当  $\mathcal{D} \models \mathcal{A}$  蕴含  $\mathcal{D} \models \mathcal{B}$ .

2.  $\mathcal{D} \models \mathcal{A} \rightarrow \mathcal{B}$  当且仅当  $\mathcal{D} \models \mathcal{A}$  蕴含  $\mathcal{D} \models \neg \mathcal{B}$  为假. 即  $\mathcal{D} \models \mathcal{A} \rightarrow \mathcal{B}$  当且仅当  $(\mathcal{D} \models \mathcal{A} \wedge \mathcal{D} \models \neg \mathcal{B})$  为假.

3.  $\mathcal{D} \models \mathcal{A} \rightarrow \mathcal{B}$  当且仅当  $\mathcal{D} \models \mathcal{A} \rightarrow \mathcal{B}$  蕴含  $\mathcal{D} \models \mathcal{A}$  蕴含  $\mathcal{D} \models \mathcal{B}$  为假. 即  $\mathcal{D} \models \mathcal{A} \rightarrow \mathcal{B}$  当且仅当  $(\mathcal{D} \models \mathcal{A} \rightarrow \mathcal{B}) \wedge \mathcal{D} \models \mathcal{A} \wedge \mathcal{D} \models \neg \mathcal{B}$  为真.

4.  $\mathcal{D} \models \mathcal{A} \rightarrow \mathcal{B}$  当且仅当  $\mathcal{D} \models \mathcal{A} \rightarrow \mathcal{B}$  蕴含  $\mathcal{D} \models \mathcal{A}$  蕴含  $\mathcal{D} \models \mathcal{B}$  为假. 即  $\mathcal{D} \models \mathcal{A} \rightarrow \mathcal{B}$  当且仅当  $(\mathcal{D} \models \mathcal{A} \rightarrow \mathcal{B}) \wedge \mathcal{D} \models \mathcal{A} \wedge \mathcal{D} \models \neg \mathcal{B}$  为真.

5.  $\mathcal{D} \models \mathcal{A} \rightarrow \mathcal{B}$  当且仅当  $\mathcal{D} \models \mathcal{A} \rightarrow \mathcal{B}$  蕴含  $\mathcal{D} \models \mathcal{A}$  蕴含  $\mathcal{D} \models \mathcal{B}$  为假. 即  $\mathcal{D} \models \mathcal{A} \rightarrow \mathcal{B}$  当且仅当  $(\mathcal{D} \models \mathcal{A} \rightarrow \mathcal{B}) \wedge \mathcal{D} \models \mathcal{A} \wedge \mathcal{D} \models \neg \mathcal{B}$  为真.

6.  $\mathcal{D} \models \mathcal{A} \rightarrow \mathcal{B}$  当且仅当  $\mathcal{D} \models \mathcal{A} \rightarrow \mathcal{B}$  蕴含  $\mathcal{D} \models \mathcal{A}$  蕴含  $\mathcal{D} \models \mathcal{B}$  为假. 即  $\mathcal{D} \models \mathcal{A} \rightarrow \mathcal{B}$  当且仅当  $(\mathcal{D} \models \mathcal{A} \rightarrow \mathcal{B}) \wedge \mathcal{D} \models \mathcal{A} \wedge \mathcal{D} \models \neg \mathcal{B}$  为真.

4. 设  $\mathcal{D}$  为任一谓词逻辑解释,  $\mathcal{D} \models \mathcal{A}$  表示  $\mathcal{A}$  在  $\mathcal{D}$  中为真,  $\mathcal{D} \models \mathcal{B}$  表示  $\mathcal{B}$  在  $\mathcal{D}$  中为真. 则



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