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26266654.75 716698192 18367418.017241 72616670.72 69025134898 405771.96296296 109021123218 23674593.666667 342212701.66667 735129596.5 11872263806 109152126070 6624634024 20666191.842105 37533757.693878 18041494464 23652311.545455 2536875218 18509844.106383 8874021 42589596188 747357075 18715218.255814 12283409300 8178009.7945205

Q. 31.

**Solution:** To Find: what amount will he pay in the 30<sup>th</sup> instalment.

Given: first instalment = 10000 and it increases the instalment by 500 every month.

∴ So it form an AP with first term is 10000, common difference 500 and number of instalment is 30

Formula Used:  $T_n = a + (n - 1)d$

(Where a is first term,  $T_n$  is nth term and d is common difference of given AP)

∴  $T_n = a + (n - 1)d \Rightarrow T_n = 10000 + (30 - 1)500 \Rightarrow T_n = 10000 + 29 \times 500$

$T_n = 10000 + 14500 \Rightarrow T_n = 24,500$

∴ So, he will pay 24,500 in the 30<sup>th</sup> instalment.

EXERCISE 11B

PAGE: 410

Q.1.

**Solution:** To Find: The sum of 25 terms of the given AP series.

Sum of n terms of an AP with first term a and common difference d is given by

$$S = \frac{n}{2} [2a + (n - 1)d]$$

Here, a = 17, n = 23 and d = - 5

$$S = \frac{23}{2} [34 + 22(-5)]$$

$$\Rightarrow S = \frac{23}{2} [34 - 110] = \frac{23}{2} \times (-76)$$

= - 874

Sum of 23 terms of the AP IS - 874.

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- |                |                 |
|----------------|-----------------|
| $2x + 3y = 18$ | $y + 2x = -18$  |
| $6x + 3y = 30$ | $y + 6x = 30$   |
| $2x + 3y = 18$ | $2x + y = -18$  |
| $6x - 3y = 30$ | $6x - y = -30$  |
| $2x + y = 18$  | $2x + 4y = -18$ |
| $6x - y = 30$  | $2x - 4y = -30$ |
| $2x - y = 18$  | $x + 4y = -18$  |
| $6x - y = 30$  | $2x - 4y = -30$ |
| $y + 2x = 18$  | $x + y = -18$   |
| $y + 6x = 30$  | $x - y = -30$   |

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BYJU'S RS Aggarwal Solutions for Class 11 Maths Chapter 10: Trigonometric, Or Circular, Functions

$\cos^{-1} \left( \frac{1}{\sqrt{1+\sin^2 \theta}} \right) = \cos^{-1} \left( \frac{1}{\sqrt{1+\left(\frac{4}{5}\right)^2}} \right) = \cos^{-1} \left( \frac{5}{\sqrt{25+16}} \right) = \cos^{-1} \left( \frac{5}{\sqrt{41}} \right)$

(i)  $\sin^{-1} \left( \frac{3}{5} \right) + \sin^{-1} \left( \frac{4}{5} \right) = \sin^{-1} \left( \frac{3}{5} \right) + \sin^{-1} \left( \frac{4}{5} \right)$

$\Rightarrow \frac{12}{13} \cdot \frac{5}{5} + \frac{4}{5} = \frac{36+20}{65} = \frac{56}{65}$

(ii)  $\sin^{-1} \left( \frac{3}{5} \right) - \sin^{-1} \left( \frac{4}{5} \right) = \sin^{-1} \left( \frac{3}{5} \right) - \sin^{-1} \left( \frac{4}{5} \right)$

$\Rightarrow \frac{3}{5} \cdot \frac{12}{13} - \frac{4}{5} \cdot \frac{12}{13} = \frac{36-48}{65} = -\frac{12}{65}$

(iii) Here first we will calculate value of sine and cosine.

$\sin x = \frac{12}{13}$  and  $\cos x = \frac{5}{13}$  and  $\sin y = \frac{4}{5}$  and  $\cos y = \frac{3}{5}$

$\sin(x-y) = \frac{12}{13} \cdot \frac{3}{5} - \frac{4}{5} \cdot \frac{12}{13} = \frac{36-48}{65} = -\frac{12}{65}$

$\cos(x-y) = \frac{12}{13} \cdot \frac{4}{5} + \frac{3}{5} \cdot \frac{12}{13} = \frac{48+36}{65} = \frac{84}{65}$

Q. 14. If  $\cos x = \frac{3}{5}$  and  $\cos y = \frac{4}{5}$ , where  $\frac{\pi}{2} < x < \pi$  and  $\frac{\pi}{2} < y < \pi$ , find the values of  $\sin(x+y)$  and  $\cos(x+y)$ .

Solution: Given  $\cos x = \frac{3}{5}$  and  $\cos y = \frac{4}{5}$

We will first find out value of sine and cosine.


Passage 7

Name \_\_\_\_\_ Date \_\_\_\_\_

Read the paragraph. Then answer the questions.

### Daniel Webster's Program

In 1899, Daniel Webster started a page program in the United States Senate. The pages are young people who work for the senators. For example, pages run errands and deliver messages. Pages are chosen by the senators of their home states. They must be 16 years old, have good grades, and show leadership qualities. Pages live near the Capitol Building and attend school. They are exempted from homework when the senators work overtime. Pages get paid, but the biggest reward is the experience of working in the Senate.



- Fill in the correct circle to show whether each statement is a fact or an inference.
 

<b>Fact</b>	<b>Inference</b>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
- The main idea of this paragraph is
  - A. pages run errands and deliver messages.
  - B. pages must be 16 years of age.
  - C. the U.S. Senate page program.
  - D. pay for Senate pages.
- From this paragraph, you can conclude that Webster's program
  - A. is a good way to get out of doing homework.
  - B. benefits both senators and pages.
  - C. pays pages high salaries.
  - D. offers a lot of sports activities to pages.
- In this paragraph, the word **exempted** means
  - A. excused.
  - B. accused.
  - C. charged.
  - D. overworked.

(b) explanation of the buyer's market: globalization is the rapid integration or interconnection Among the countries mainly on the economic level. There is a differentiation of the absolute product because there is no substitute. (a) There are great profits for the company (b) there is no profit and no loss for society (c) there are negligible profits for the company (d) there are great losses for the response of the response of the Company; (b) there is not a profit and no loss for the demand stops 10. Businesses can enter or exit the market without costs. The section contains multiple choice questions and answers on arithmetic, algebra, input and output, management variables, input errors, variables and assignments, resolution of equations, functions, graphics, statistics, tracing more curves, vectors and matrices. In the long run the market price of a commodity is equal to its minimum average production cost under \_\_\_\_\_? Marginal revenue are the change in total revenue that stands when there is a change in the quantity produced a company maximizes its total profit is equivalent to a marginal cost to marginal revenues and to solve the price of a product and the quantity that must produce . Question 27. Check the applications for NCCT MCQ below for the classroom economy 11 Chapter 4 The company's theory in perfect competition with free download PDF answers. The elasticity at a point on a straight line filling curve that passes through the origin will be 3.0 (a) 1.0 (c) 4.0 (d) 2.0 Answer Answer: (b) 1.0 Explanation: Regardless of the gradient of the curved linear offer or its position on the power curve, the pes of a linear power curve that passes through the It is always equal to 1. - each MCQ set focuses on a specific topic of a given chapter in the Matlab subject. A super normal profit is also called economic profit and abnormal profit, and is earned when total revenues are greater than total costs. (a) total revenue, total fixed cost (b) marginal cost, marginal revenue (c) medium income, average cost (d) total cost, total revenue response answer: (c) average revenue, average cost request 12. In Perfect competition, a company earns profit when \_\_\_\_\_ exceeds \_\_\_\_\_? The movement of people among countries increases due to globalization. Question 18. - Anyone prepares for the aptitude test in Matlab. In perfect competition, long-term, if a new company enters the sector, the refueling curve changes to the right resulting in \_\_\_\_\_.? Since price prices and they have no price control but only production, so even if they increase their quantity of production, still the price will remain constant and therefore do marginal revenue. You can also download the Matlab MCQS pdf by applying below. AR> MR (B) A. None of the companies is large enough to influence the industry. In this case, the company incurs a smaller loss producing some output than not producing any output. (a) Agriculture (b) Banking sector (c) Production of cars (D) Railways Answer Answer: (a) Agricultural question 3. - These MCQs also cover numeric and MCQs oriented to the diagram. - These MCQs are organized in a sense as a chapter and each chapter is a Pother organized in a sense for topics. Question 20. A company can sell as much as it wants at the market price. Question 19. The company continues production, if?  $\hat{A} \hat{c} \hat{a}, \hat{r}$  - students who are preparing for college tests and exams such as medium-term tests and semester tests on - All - Experts, Fresh and University Students / School. 6. Beyond the manufacturer's balance when Mr.

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