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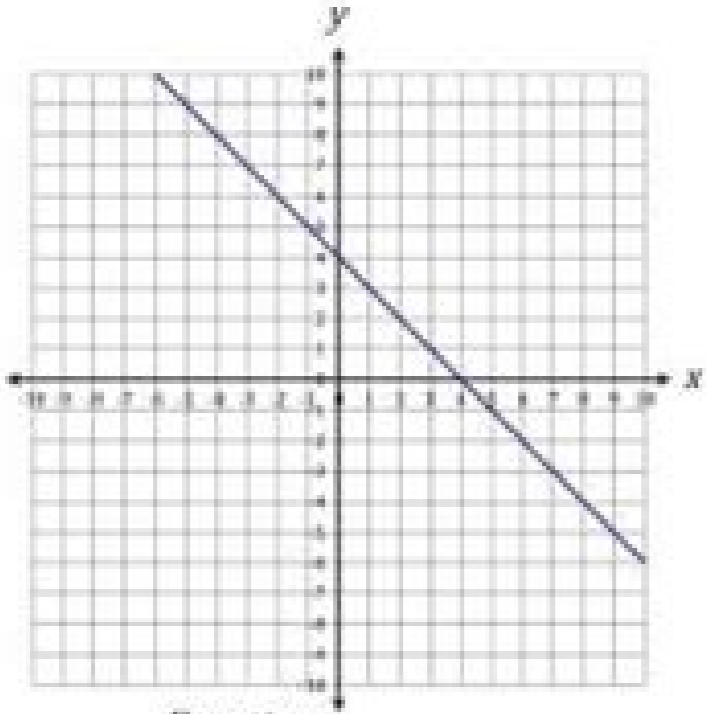
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Linear Equation Graphs (A)

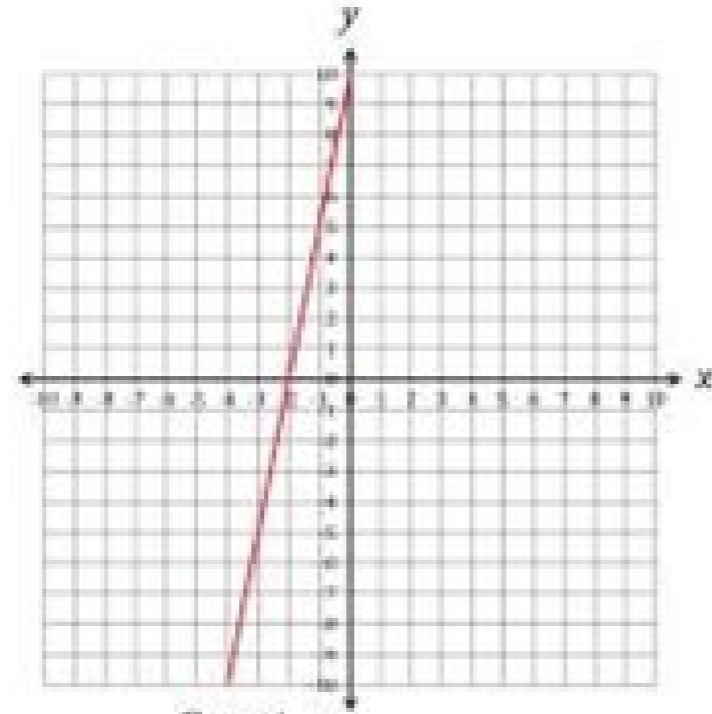
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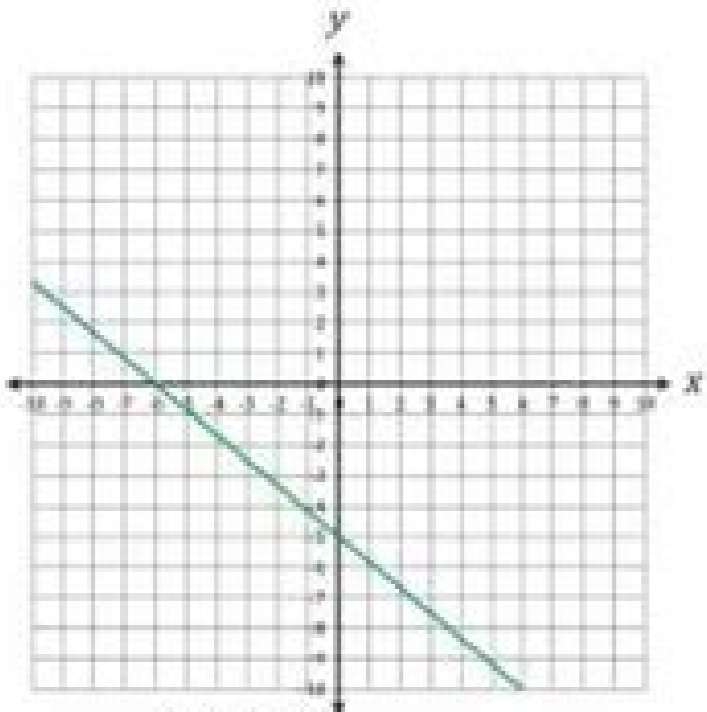
Determine the equation, y-intercept, x-intercept and slope of each line from its graph.



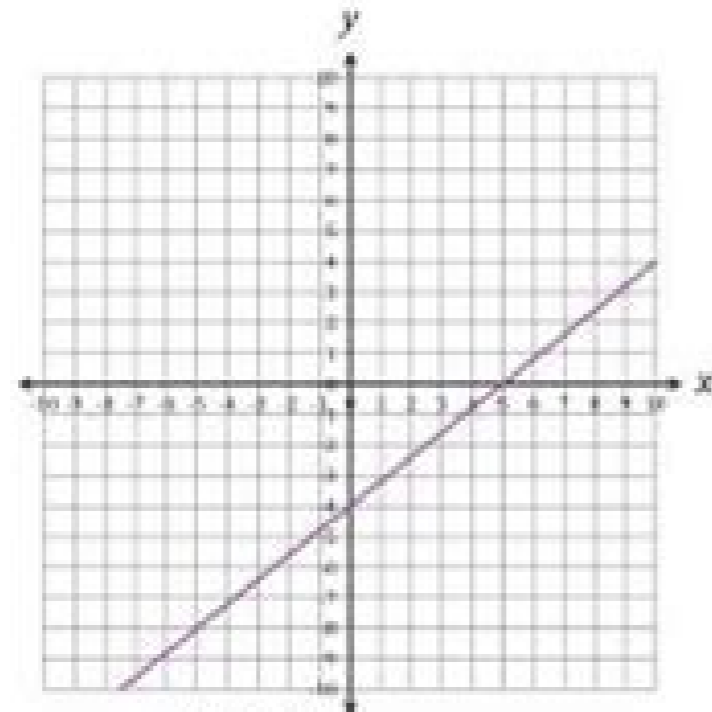
Equation: _____
y-intercept: _____
x-intercept: _____
Slope: _____



Equation: _____
y-intercept: _____
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Equation: _____
y-intercept: _____
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Slope: _____



Equation: _____
y-intercept: _____
x-intercept: _____
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Exercise 5.1 Page: 99

1. In which of the following situations, does the list of numbers involved make as arithmetic progression and why?

(i) The taxi fare after each km when the fare is Rs 15 for the first km and Rs 8 for each additional km.

Solution:

We can write the given condition as:
Taxi fare for 1 km = 15
Taxi fare for first 2 kms = 15 + 8 = 23
Taxi fare for first 3 kms = 23 + 8 = 31
Taxi fare for first 4 kms = 31 + 8 = 39
And so on.....

Thus, 15, 23, 31, 39 ... forms an A.P. because every next term is 8 more than the preceding term.

(ii) The amount of air present in a cylinder when a vacuum pump removes 1/4 of the air remaining in the cylinder at a time.

Solution:

Let the volume of air in a cylinder, initially, be V litres.
In each stroke, the vacuum pump removes 1/4th of air remaining in the cylinder at a time. Or we can say, after every stroke, $1 - 1/4 = 3/4$ th part of air will remain.

Therefore, volumes will be $V, 3V/4, (3V/4)^2, (3V/4)^3, \dots$ and so on
Clearly, we can see here, the adjacent terms of this series do not have the common difference between them. Therefore, this series is not an A.P.

(iii) The cost of digging a well after every metre of digging, when it costs Rs 150 for the first metre and rises by Rs 50 for each subsequent metre.

Solution:

We can write the given condition as:
Cost of digging a well for first metre = Rs. 150
Cost of digging a well for first 2 metres = Rs. 150 + 50 = Rs. 200
Cost of digging a well for first 3 metres = Rs. 200 + 50 = Rs. 250
Cost of digging a well for first 4 metres = Rs. 250 + 50 = Rs. 300
And so on..

Clearly, 150, 200, 250, 300 ... forms an A.P. with a common difference of 50 between each term.

Single Correct Answer

Q1. If $P = \begin{pmatrix} 1 & a & 3 \\ 1 & 3 & 3 \\ 2 & 4 & 4 \end{pmatrix}$ is the adjoint of a 3×3 matrix A and $|A| = 4$, then a

is equal to

- (a) 4
- (b) 11
- (c) 5
- (d) 0

(IIT JEE Main 2013)

Sol.

Correct Answer: (b)

We have,

$$P = \begin{pmatrix} 1 & a & 3 \\ 1 & 3 & 3 \\ 2 & 4 & 4 \end{pmatrix}$$

$$|P| = 1(12-12) - a(4-6) + 3(4-6) = 2a-6$$

Given,

$$P = \text{adj}(A)$$

$$|P| = |\text{adj}(A)| = |A|^{n-1} \quad (|\text{adj}(A)| = |A|^{n-1})$$

$$\Rightarrow 2a-6=16$$

$$\Rightarrow a=11$$

1. Consider p and q are distinct odd primes such that $p-1$ divides $q-1$. If $(a, pq) = 1$ then prove that $a^{q-1} \equiv 1 \pmod{pq}$.

2. Consider a is any integer. The objective is to show a and a^{2011} have the same last digit.

3. Find the number of positive integers less than or equal to 3600 that is ≤ 3600 . That are prime to 3600.

4. Consider p is a prime and $a^2 \equiv b^2 \pmod{p}$. Prove that $p \mid (a+b)$ or $p \mid (a-b)$.

5. Find the remainder when $5^{5^{2013}}$ is divided by 54.

6. Find four solutions of $\phi(n) = 16$.

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Some of the areas covered are: Difficult start, weak idle or power failure. When the ¹ level is too low, the sensor turns off the engine. Let M4 = I, (where I denotes the identity matrix) and M Ā Ā Ā I, M2 Ā Ā Ā I and M3 Ā Ā Ā One of the main distributors of this engine Ā© Northern Tool Supply. If, ABT A© equals 3. The determinant of the matrix AB A© 12. Which of the following equations is a correct identity for arbitrary real matrices 3 x 3 P, Q and R? Car owners report that the sensor "thinks" that the engine is down to ³, and turns off the engine. P(Q+R) = PQ + RP (P-Q)2 = P2 Ā Ā 2PQ + Q2 det(P+Q) = det(P) + det(Q) (P+Q)2 = Ā Ā P2 + PQ + PQ + Q2 Track your progress, create stripes, highlight and save reading Semester Notes, Semester Notes - Mathematical Engineering, shortcuts and tricks, Engineering, Practice Testing, Engineering, Living Questions, Sample Paper, MCQs, Exam, Semester Notes - Mathematical Engineering, Mathematics, Matrices - Question Bank, Previous Year Solution Questions, pdf, Mathematics, Objective Questions, ppt, Important Questions, View Lectures, Study Material, Free, Semester Notes - Mathematical Engineering Abstract, Matrices, Extras, simulated tests for exam, papĀ© is from last year, Engineering, Matrices - Question Bank, Matrices - Question Bank; Liquid Combustion Technology Corporation, or LCT, is a large multinational manufacturer of small motors. the absolute value will remain unchanged, but the signal will change both the absolute value and the signal will change the absolute value, but the signal will not change both the absolute value and the signal will remain unchanged. A slight flaw, however, becomes evident when the engine is adapted to motor sports. Perform the following operations jes on the array .Add the third row A line. 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