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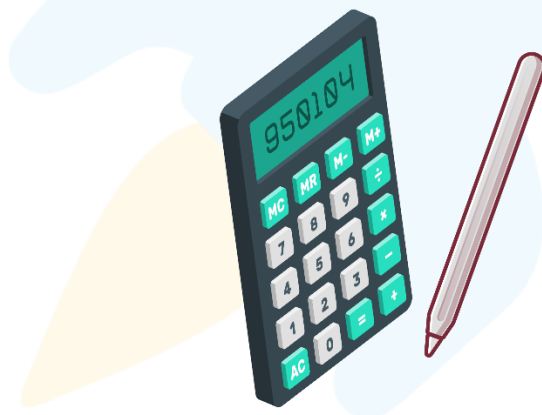
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Solving System of Equations by Substitution

- 1) The pair of equations has $x = -4$ and $x = 0$:
 - A. a unique solution
 - B. exactly two solutions
 - C. infinitely many solutions
 - D. no solution
- 2) For what value of b , do the equations $7m - 3n + 1 = 0$ and $-14m + bn = 2$ represent coincident lines?
- 3) The cost of 3 digital calculators and 5 digital pens is **\$3500**. Cost of one more digital calculator and 3 more digital pens is **\$1300**. Find the total cost of 2 digital calculators and one digital pen.



- 4) A group of students decided to raise some money to donate for a relief camp. Both boys and girls decided to contribute some amount which will be the same for all the girls and same for all the boys. If 5 girls and 7 boys decide to contribute, **\$50** is collected, but if 7 girls and 5 boys decide to contribute, **\$46** is collected. Find the amount contributed by each girl and each boy.
- 5) A pair of equations $x = p$ and $y = q$, graphically represents lines which are-

- A. Intersecting at (q, p)
- B. Intersecting at (p, q)
- C. Parallel
- D. Coincident

6) Alex purchased a rectangular plot whose length is 4 ft more than its width. If half of the perimeter of the plot is 36 ft , find the dimensions of the plot.



For questions (7-10), solve the following pair of linear equations using the substitution method:

7) $p + 3q = 15$
 $-3p + 10q = 19$

8) $5r + 7s = 48$
 $r + 4s = 23$

9) $9b + 8c - 22 = 0$
 $3b + 2c = 7$

10) $2r + 5s = 20$
 $6r - 5s = 12$

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"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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**ANSWERS**

1)	(D)
2)	$b = 6$
3)	The total cost of 2 digital calculators and one digital pen = \$2500
4)	Each girl contributed = \$3 Each boy contributed = \$5
5)	(B)
6)	Length = 11 ft Width = 7 ft

7)	$p = \frac{93}{19}$ $q = \frac{64}{19}$
8)	$r = \frac{31}{13}$ $s = \frac{67}{13}$
9)	$b = 2$ $c = \frac{1}{2}$
10)	$r = 4$ $s = \frac{12}{5}$

FUN FACT

1. A pair of linear equation is consistent if it has a solution, either unique or infinite.
2. A pair of linear equations is inconsistent if it has no solution.
3. If both the equations are same, we get infinite number of solutions.

