

Eng. Mohamed Elminshawy

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find the value of "x" in the following equation 3x-5y=-1/3when y/-4 = -2tober 2023 Math www.MinshawyMath.com

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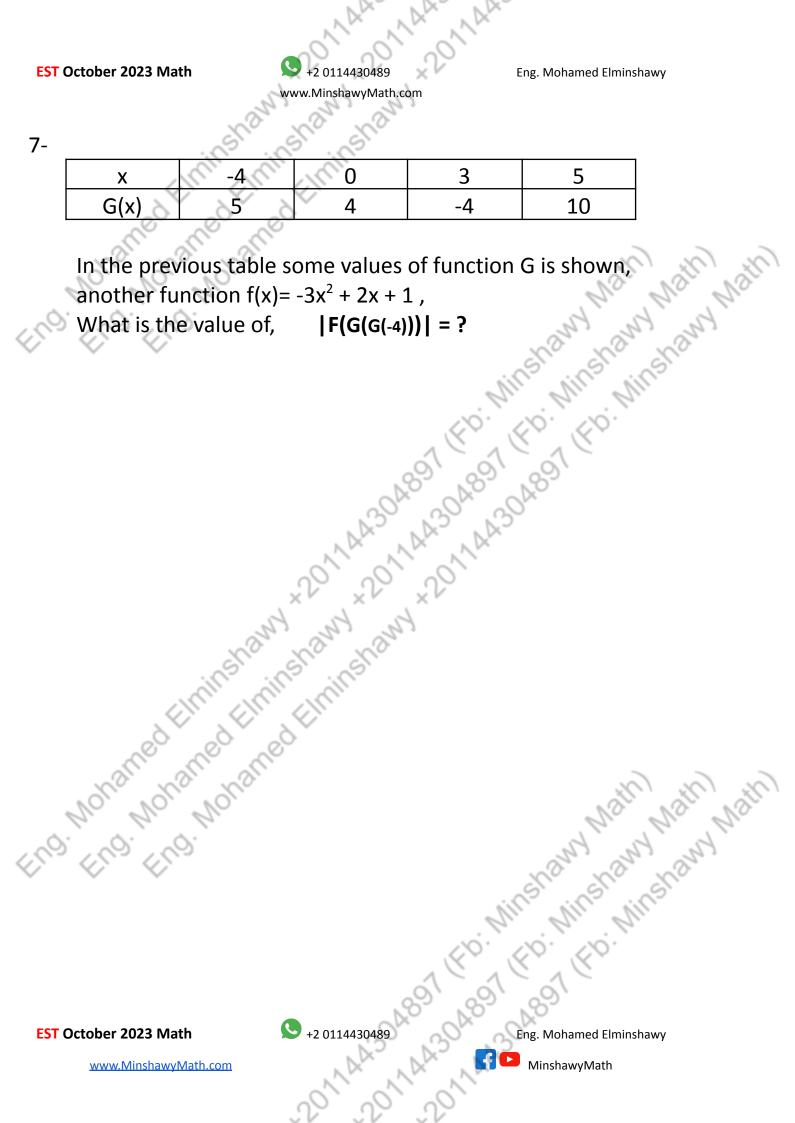
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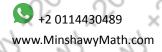
- In the following equation:  $3y^3 1 = k$  find "k" that makes "y"
- Hamda traveled at speed 70 Km/h for 30 min, same distance as he traveled with speed 90 Km/h for x min. What is the difference in time between ++ the second speed? , st s
  - the second speed?  $x^{2} + mx = 8$  has only one solution, where "m" =  $a\sqrt{b}$ , and 0 < a < b. What is the value of  $a < b^{2}$ . 6and 0<a<br/>
    and 0<a<br/>
    what is the value of a+b? erg. Mohamed Elminshawy Minshawy

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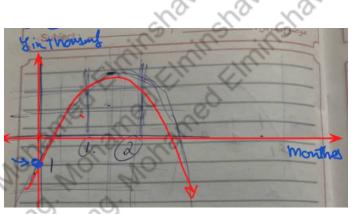


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The following graph, related to questions 8,9,10, shows a company's capital ,where x-axis represent months starting from February and y-axis represent more thousands of dollars: 01144304897 (FY AA304891

## 8- What was the investment?

- 1000\$ a)
- 1200\$ b)
- 3000\$ c)
- Can't be determined d)
- 9- When was the maximum profit?
  - February to March a)
  - March to April b)
  - April to May C)
  - snag)

10- What is the equation of the function represented in the graph? a)  $x^2+3x+1$ b)  $-x^2-3x-1$ c)  $-x^2+3x$ tober 2023 Math  $x_{WWW}$  Minshawy/Math.com

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11- The triangle shown above is right at M, If sin(H) = 5/13we wohamed Elminst What is Tan(N) ? , 12/5 nod) 7/5 named inner Eng

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- 12- 125 apples weigh 21.25 Kg total. If each kg costs 3\$ , assuming all apples are equal in weight, How much each apple costs? each apple costs? 13- y=3x<sup>3</sup> +2x+1, y=2x+a both intersect at one integer point
- , -2x+a bo, what is the va () ()80 ()85 (70 $\leq$ a $\leq$ 90) what is the value of a?

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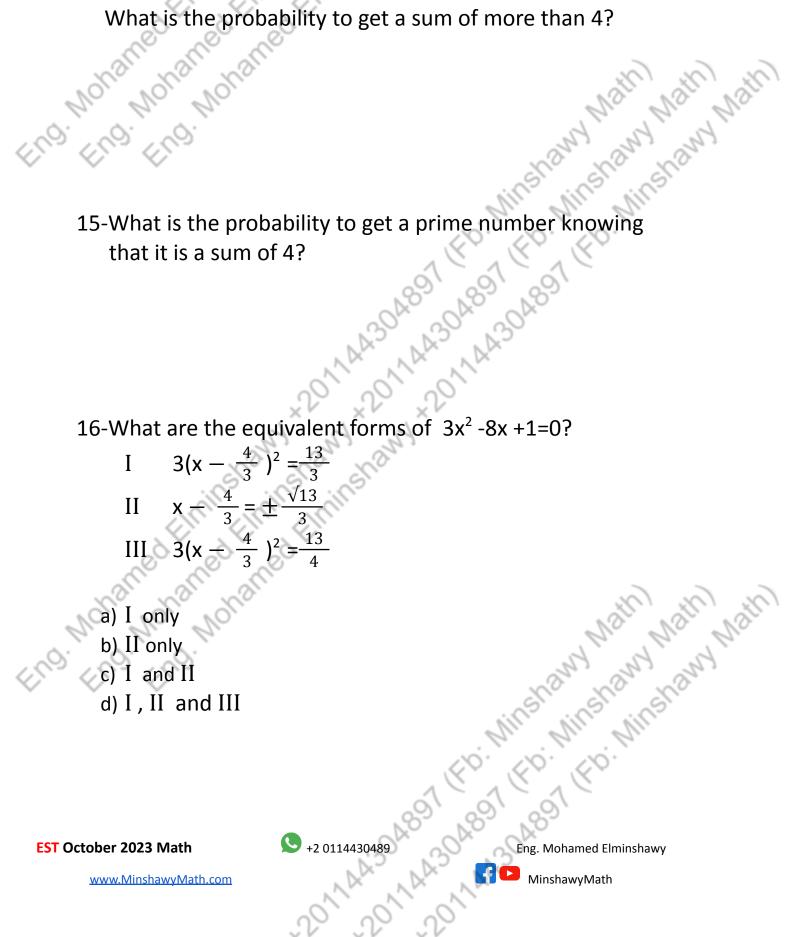


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14-A spinner has 4 sections (-1,1,1,2) and a fair dice is thrown. What is the probability to get a sum of more than 4?



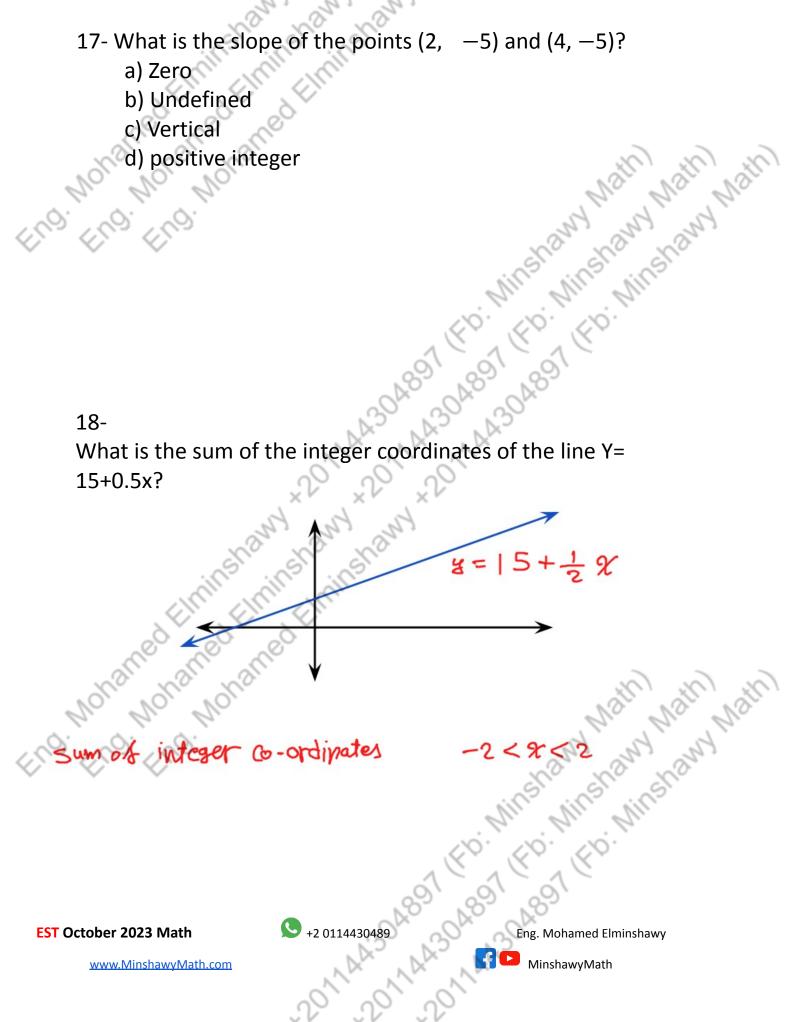
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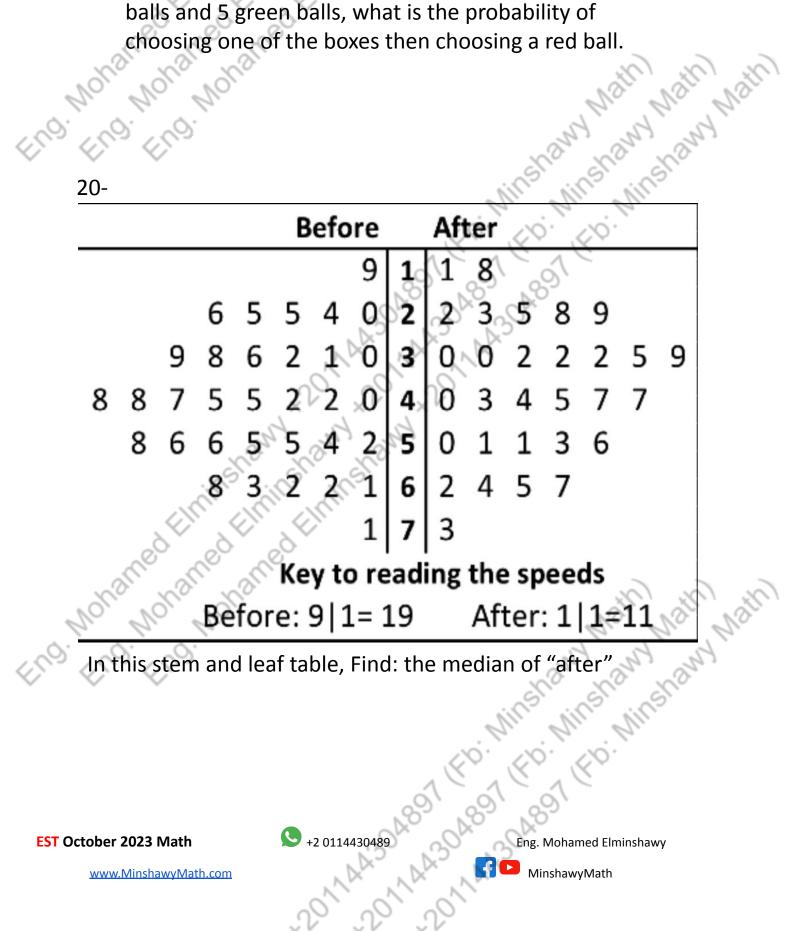
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There are two boxes, the first box contains: 2 green balls 19and 6 white balls, and the second box contains: 3 red balls and 5 green balls, what is the probability of choosing one of the boxes then choosing a red ball. Moho



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21- In the following two functions: g(x)= -2x<sup>2</sup>+x+1 When w

