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No calc:

1- IF 2 Dices are thrown, what is the probability that the sum of their number will be less than 5 if you know that their sum is less than 9?

2- the axis of symmetry is equal to -4 and $f(3)=4$ $f(k)=4$, what is the value of k ?

Calc:

1-if a volume of a cube equals to 216 cubic centimeter, what is the height?

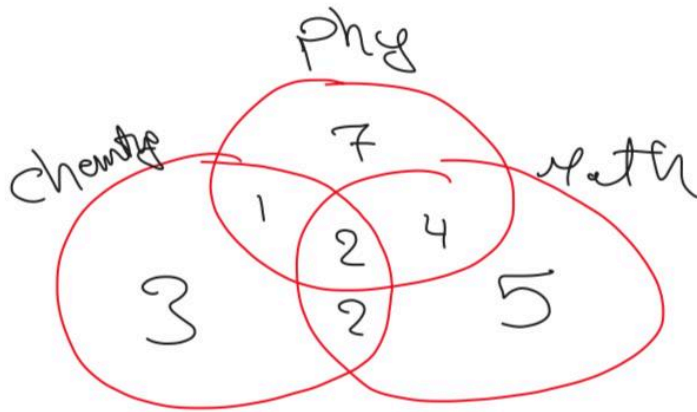
2- if the area of a rectangle is 32 and the length is twice the width, what is the width?

3-If triangle ABC right angle at A and angle c=54 and the hypotenuse length equals to 7 what is the length of AB?

4-33000 simple interest rate 4% for 3 years, the interest compounded annually at a rate of 8.5% for 10 years find the value after the 13 years?

use the data below to solve questions 5, 6, 7

shown below is a Venn diagram for students who will redo the exam for the second time



5-Find

-Find the total number of students?

-Find the probability of this who chose not to retake physics?

6-find the probability of choosing a student who didn't fail in physics?

7-find the number of students who took math only for the second time?

8-Using the table below find the probability for this who will not have a

	Beach	Park	Home
Female	39	46	15
Male	30	20	50

vacation at home?

9-If $2y=5$, find the slope of the line?

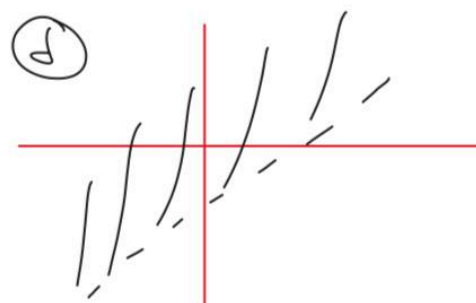
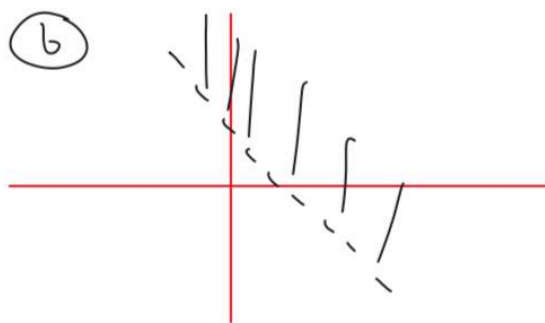
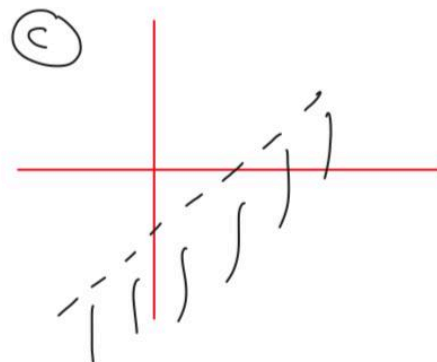
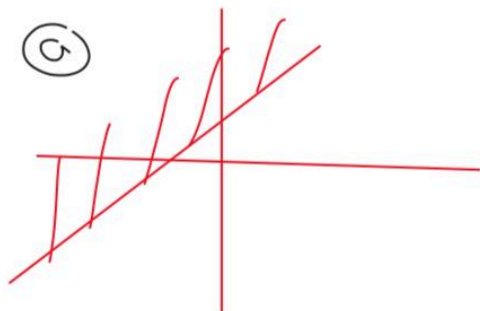
10-A circle with center $(-3, 9)$ and passes through the points $(2, -4)$, what is the radius of the circle?

11-80 employees playing sports in freetime, 28 play football only, 13 play volleyball and football, 14 play basketball and football and 15 play volleyball and basketball, the rest play all three games.

-Find probability of choosing employee who plays football only?

-Find the probability of choosing an employee who doesn't play any game?

12-graph the following Inequality $y < 2x - 3$?



13-2, 2, 3, 3, 4, 5, 6, 6, 7

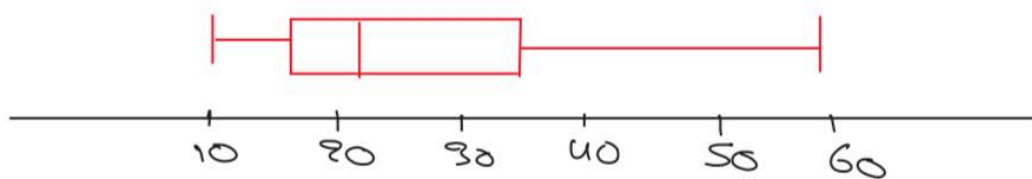
Find the standard deviation?

14-1, 3, 5, 7, 8, 9, 3, 1, 9, 10, 12, 5

Find the mean of this data?

Using this data solve the following questions

This boxplot represent ages of big family



15-Find the youngest person on the family?

16-Find the inter quartile range?

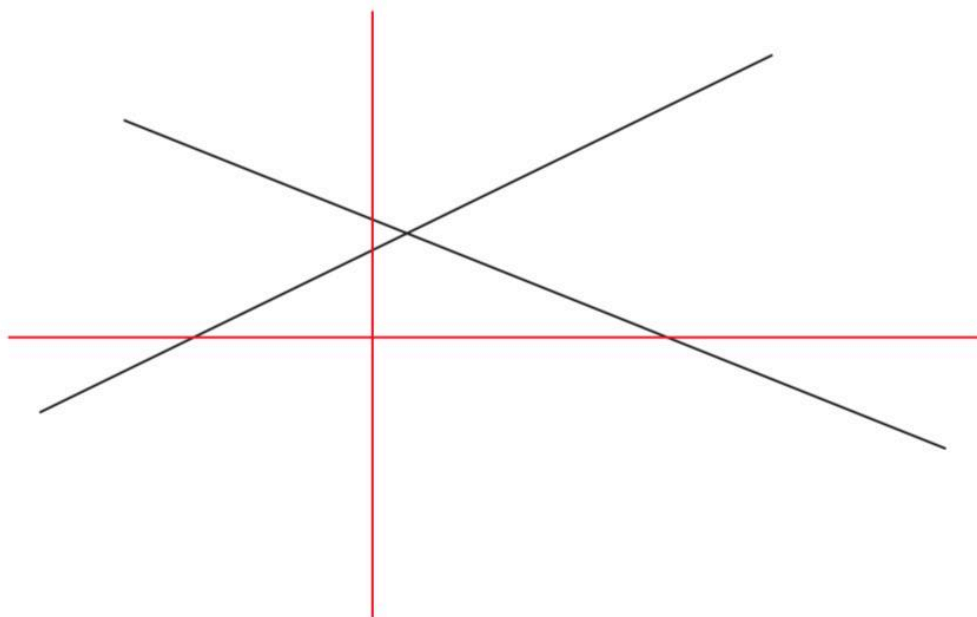
17-how can you represent the data?

A-skewed left

B-skewed right

C-symmetrically skewed

D-not enough information



18-

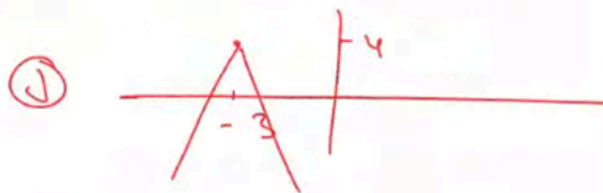
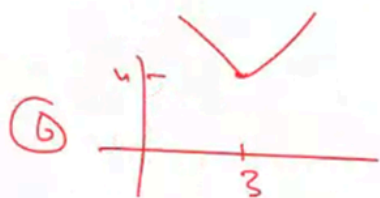
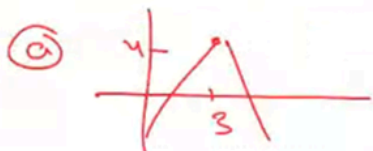
This system is

- a) Consistent dependent
- b) Consistent independent
- c) Intersect at two points
- d) Inconsistent

19-

$$y = -|x + 3| + 4$$

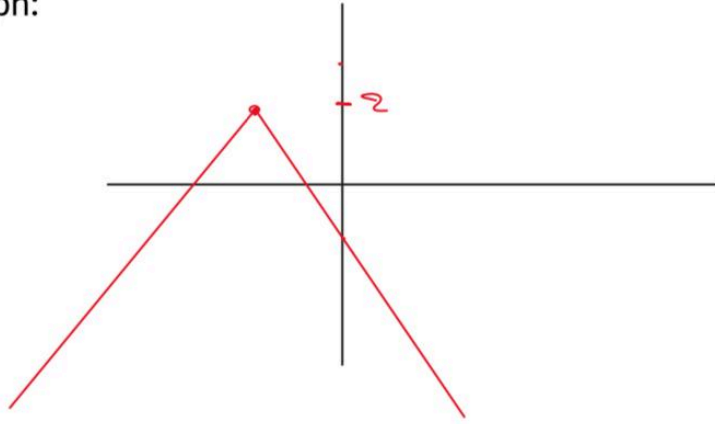
find The graph.



20- If $x^4 - x^3 - x^2 - x - 2 = 0$, find the real roots?

21-

Find the Equation of this graph:



A- $y = -3|x - 1| + 2$

B- $y = -3|x + 1| + 2$

C- $y = 3|x - 1| + 2,$

D- $y = -3|x - 1| - 2$

22- points B(3, 4) and A(0, 5), if AB=

23- $F(x) = \frac{x-2}{2x+3}$ if $x = \infty$, find $f(x)$?

24- Find the relation between $3x+6y = 2$
and $-6x-12y=-4$?

A- Parallel

B- Don't intersect

C- Coincident

D- Perpendicular