

Assignment: T4-71 Correlation Coefficient

Use the following tables and your calculator to complete the following:

The table below shows the number of absences a student had and how many assignments they failed last term.

Absences	6	0	15	9	12	5	8	10	20
# of Assignments Failed	15	1	36	29	26	8	17	25	48

1. Find the linear regression equation on your calculator.
2. What does the slope tell you in terms of the situation?
3. What does the y-intercept tell you in terms of the situation?
4. What is the correlation coefficient?
5. What does this tell you about the relationship between absences and number of assignments failed?

The table below shows the age and weight of various people.

Age (years)	12	1	9	20	6	3
Weight (pounds)	75	24	63	152	40	38

6. Find the linear regression equation on your calculator.
7. What does the slope tell you in terms of the situation?
8. What does the y-intercept tell you in terms of the situation?
9. What is the correlation coefficient?
10. What does this tell you about the relationship between absences and number of assignments failed?

Match the linear correlation coefficient with each graph. (Use each only once.)

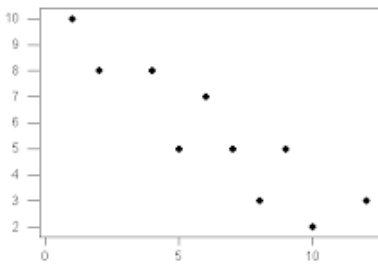
$r = -1$

$r = -0.8$

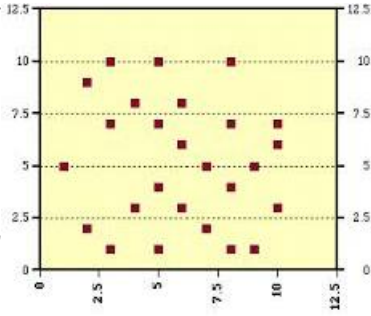
$r = 0.94$

$r = 0$

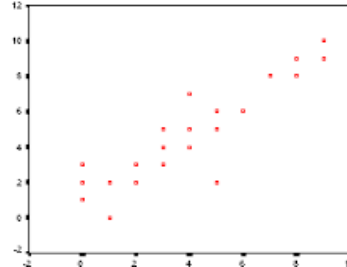
11.



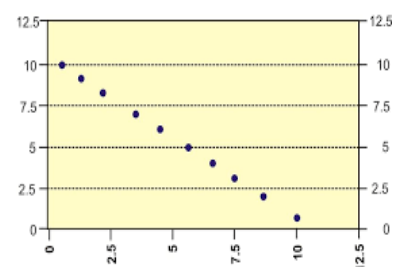
12.



13.



14.



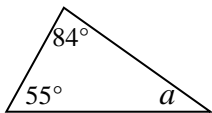
Review: *Angles: Acute, Right, Obtuse*

Sides: Equilateral, Isosceles, Scalene

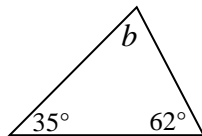
Name the Triangle by its angle and side and Find the indicated missing measures.

Show your work!

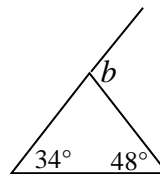
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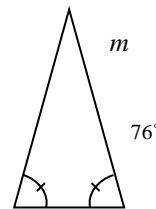
16. _____



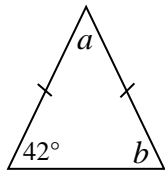
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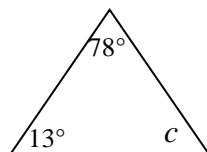
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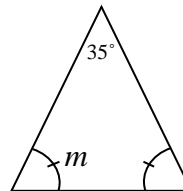
19. _____



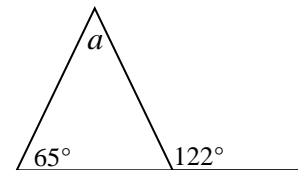
20. _____



21. _____

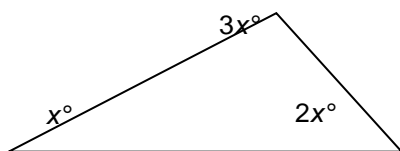


22. _____



Solve for x .

23. _____



24. _____

