

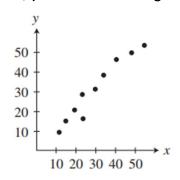
Student's Name: _____

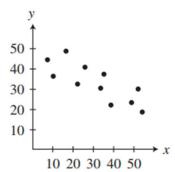
student 3 Name.

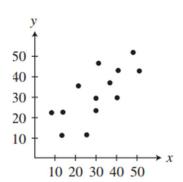
Grade 11th

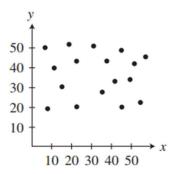
30th October, 2025

Q1) Describe the strength and direction of the linear correlation:





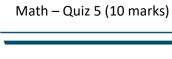




Q2) Write an equation for the linear function f satisfying the given conditions

$$f(-5) = 4$$
 and $f(8) = -7$

$$f(-6) = 0$$
 and $f(0) = 4$







Grade 11th

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Q3) Patrick's doll-making business has weekly fixed costs of \$350. If the cost for materials is \$4.70 per doll and his total weekly costs average \$500, about how many dolls does Patrick make each week

Q4) Hooke's law, which states that the distance x that a spring stretches (or compresses) is proportional to the force F pulling (or pushing) on the spring: F = kx, where k is the spring constant. (a) Graph F = kx; (b) write the vertical (or horizontal) stretch or shrink that can be used to transform the graph of y = x into the graph of F = kx.

1- k = 385.2 ib/ft

2- k = 4327 N/m