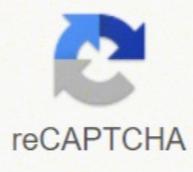




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You must have: Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB pencil, eraser, calculator.	
Total Marks	

Instructions

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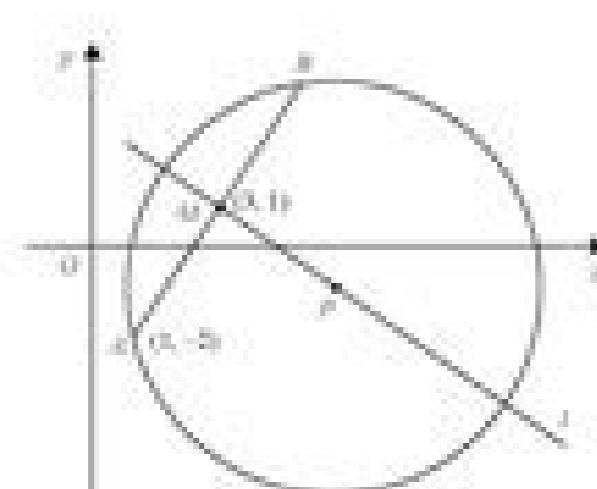


Figure 3

The points M and N lie on a circle with centre P , as shown in Figure 3.
The point M has coordinates $(-1, 0)$ and the mid-point A of MN has coordinates $(3, 1)$.

The line l passes through the points M and P .

(a) Find an equation for l . (4)

Given that the y -coordinate of P is 6,

(b) use your answer to part (a) to show that the y -coordinate of Q is -3 . (3)

(c) Find an equation for the circle. (6)

STATISTICS

4) REGRESSION, CORRELATION AND HYPOTHESIS TESTING

4.1) Exponential models → logarithms and coding used to examine trends in non-linear data.

$$y = a x^n \cdot \text{power law (}a, n \text{ constant)} \longrightarrow \text{polynomial base unknown}$$

$y = a x^n$ $\log y$
 $\log y = \log a + n \log x$ 

graph: $\log y$ against $\log x$, straight line with gradient n and vertical intercept $\log a$.

$y = ab^x$ - exponential ($a, b \neq \text{constant}$) \rightarrow exponential power unknown (exponent)

$$y = ab^x$$

$$\log y = \log a + x \log b$$

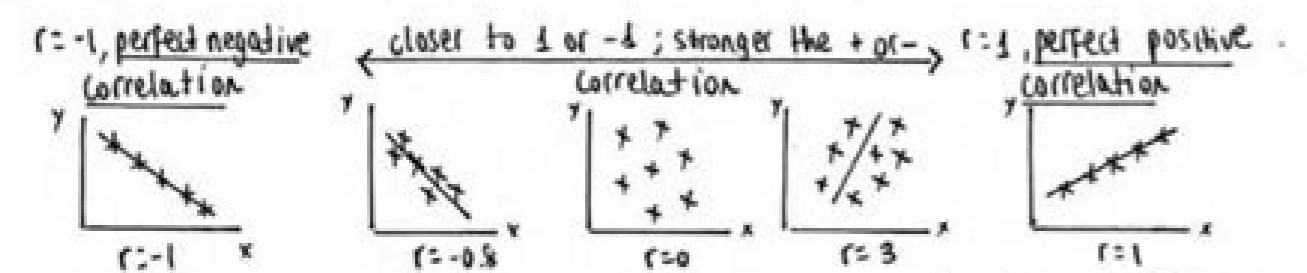
$\downarrow \quad \downarrow \quad \downarrow \quad \downarrow$
 $y \quad c \quad x \quad m$

graph: log y against x, straight line with gradient of $\log b$ and vertical intercept $\log a$.

4-2 - measuring correlation $r = \pm 1 \rightarrow$ straight line

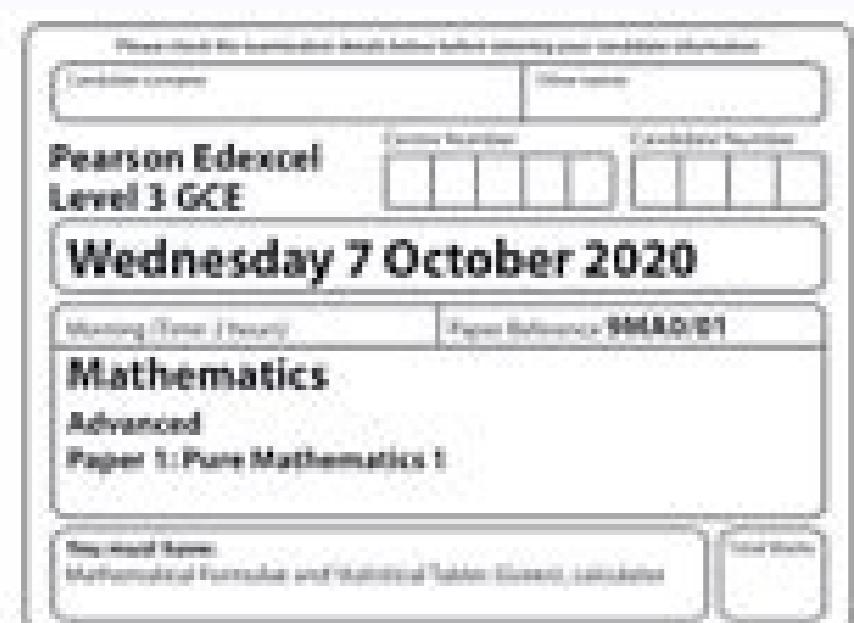
The product moment correlation coefficient describes the linear correlation between two variables. It can take any value between -1 and 1.

→ PMCC measures the type and strength of linear correlation ←



- $0.2 < r < 0.2$ \Rightarrow No significant correlation
- $-0.4 < r < -0.2$ / $0.2 < r < 0.4$ \Rightarrow weak correlation
- $-0.7 < r < -0.4$ / $0.4 < r < 0.7$ \Rightarrow moderate correlation
- $r < -0.7$ / $r > 0.7$ \Rightarrow strong correlation
- close to $+1$ or -1 \Rightarrow very strong correlation

As [name of x] increases,
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 always say on average
 unless it is perfect.



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