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IB Math SL
16 May 2018

Do Now: linear regression practice

2. "mean point" = $(\bar{x}, \bar{y})$ → (46, 0.675)

3. $y = ax + b$
   $a = 0.01129312 \approx 0.0113$
   $b = 0.15551645 \approx 0.160$
   $r = 0.99113754 \approx 0.990$

4. $y = (0.0113)(45) + (0.160) = 0.670$

10

Erialis

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IIa

DO-NOW

2) $\bar{x} = 46$

$\bar{y} = .675$

3) $a = .011...$

$b = .155...$

$r = .991$

4) $y = .01129312(45) + .15551645$

$y \approx .664$

10

Nicole Gomez
IB Math

May 16, 2018
11.1

Do non-linear Regression Practice

①

x	22	28	43	62	75
y	0.375	0.469	0.682	0.883	0.9600

In put in casio !

② mean point $(\bar{x}, \bar{y})$ ⟹ $(\bar{x} = 46, \bar{y} = 0.675)$

③ Coefficients → $y = ax + b$

$a = 0.0113$ → $r = 0.991$ correlation

$b = 0.156$

④ Estimate y for $x = 45$

$y = 0.665$

In calculator

$Y_1 = 0.0113$ (Trace Calc)

X f 45

$y = 0.006645 \approx 0.665$

Keyleen Tejada
Dr Huson

5/16/18
Math

1) (46, .675)

3) $a = .0112931206\ldots$ ← they keep going
$\approx .011$
$b = .1555164506\ldots$
$\approx .156$
$r = .9911375416\ldots$
$r \approx .991$

4. $y = ax + b$
$y = (.011)(45) + (.156)$
$y = .665$