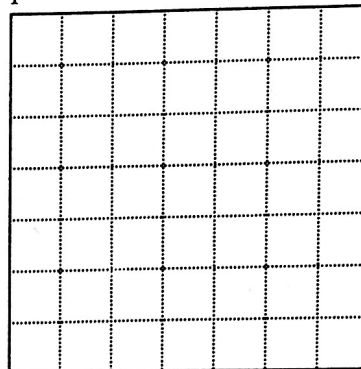


Transforming Relationships

1. Use the data below to create a scatter plot. Then find the equation of the LSRL and note r .

Explanatory (x)	Response (y)
0.7	1
1	2
2	4
3	5
4	5.5

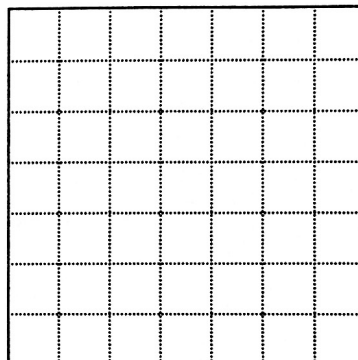


$\hat{y} =$

$r =$

2. Transform the explanatory variable. Then use the data to create a scatter plot, find r , and the equation of the LSRL.

$(\text{Expl.})^2 = x^2$	Response (y)
	1
	2
	4
	5
	5.5

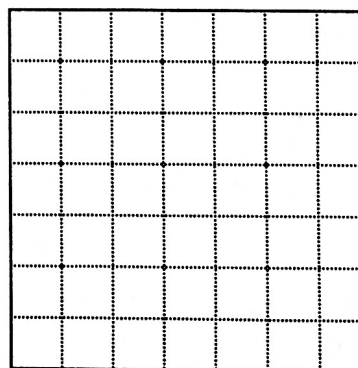


$\hat{y} =$

$r =$

3. Transform the explanatory variable. Then use the data to create a scatter plot, find r , and the equation of the LSRL.

$\sqrt{\text{Expl.}} = \sqrt{x}$	Response (y)
	1
	2
	4
	5
	5.5



$\hat{y} =$

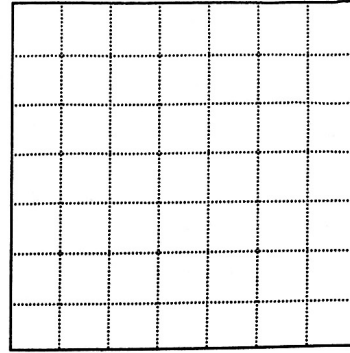
$r =$

4. Transform the explanatory variable. Then use the data to create a scatter plot, find r, and the equation of the LSRL.

$\frac{1}{\text{Expl.}} = \frac{1}{x}$	Response (y)
	1
	2
	4
	5
	5.5

$$\hat{y} =$$

$$r =$$

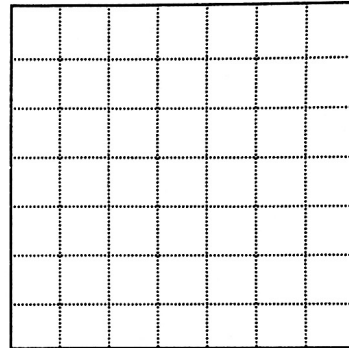


5. Transform the explanatory variable. Then use the data to create a scatter plot, find r, and the equation of the LSRL.

$\frac{-1}{\text{Expl.}} = \frac{-1}{x}$	Response (y)
	1
	2
	4
	5
	5.5

$$\hat{y} =$$

$$r =$$

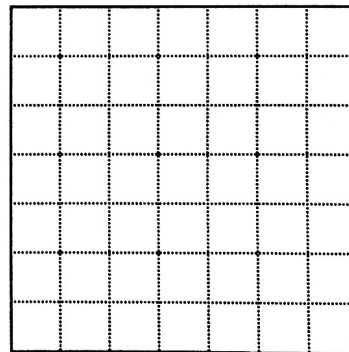


6. Transform the explanatory variable. Then use the data to create a scatter plot, find r, and the equation of the LSRL.

$\log(\text{Expl.}) = \log(x)$	Response (y)
	1
	2
	4
	5
	5.5

$$\hat{y} =$$

$$r =$$



4. Transform the explanatory variable. Then use the data to create a scatter plot, find r, and the equation of the LSRL.

$\frac{1}{\sqrt{\text{Expl.}}} = \frac{1}{\sqrt{x}}$	Response (y)
	1
	2
	4
	5
	5.5

$$\hat{y} =$$

$$r =$$

