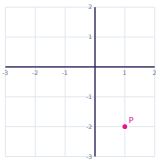
Dilations & Scale Factor · 1

Dilate P(1, -2) by a scale factor of 2. What are the coordinates of P'?



Dilations & Scale Factor · 2

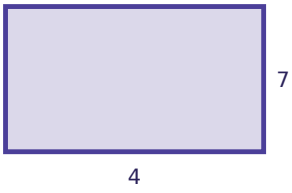
A dilation maps P(-4, 2) to P'(-12, 6). What is the scale factor?

Dilations & Scale Factor · 3

A dilation maps P(-1, 4) to P'(-3, 12). What is the scale factor?

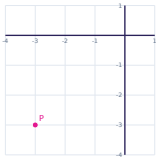
Dilations & Scale Factor · 4

A rectangle is 4 units long and 7 units wide. It is dilated by a scale factor of 4. How long is the longer side of the image?



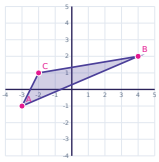
Dilations & Scale Factor · 5

Dilate P(-3, -3) by a scale factor of 3. What are the coordinates of P'?



Dilations & Scale Factor · 6

Triangle ABC is dilated by a scale factor of 3. What are the coordinates of A'?

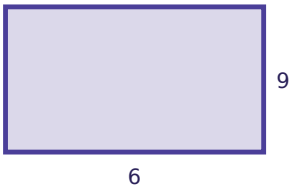


Dilations & Scale Factor · 7

A dilation maps P(6, -4) to P'(3, -2). What is the scale factor?

Dilations & Scale Factor · 8

A rectangle is 6 units long and 9 units wide. It is dilated by a scale factor of 4. How long is the longer side of the image?



Dilations & Scale Factor · 2

ANSWER

3

Dilations & Scale Factor · 1

ANSWER

(2, -4)

Dilations & Scale Factor · 4

ANSWER

28

Dilations & Scale Factor · 3

ANSWER

3

Dilations & Scale Factor · 6

ANSWER

(-9, -3)

Dilations & Scale Factor · 5

ANSWER

(-9, -9)

Dilations & Scale Factor · 8

ANSWER

36

Dilations & Scale Factor · 7

ANSWER

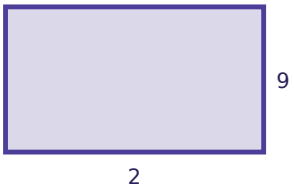
$$\frac{1}{2}$$

Dilations & Scale Factor · 9

A dilation maps P(-3, -3) to P'(-12, -12). What is the scale factor?

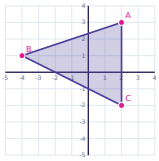
Dilations & Scale Factor · 10

A rectangle is 2 units long and 9 units wide. It is dilated by a scale factor of 4. How long is the longer side of the image?



Dilations & Scale Factor · 11

Triangle ABC is dilated by a scale factor of 4. What are the coordinates of C'?



Dilations & Scale Factor · 12

A dilation maps P(-2, -1) to P'(-6, -3). What is the scale factor?

Dilations & Scale Factor · 13

A figure is dilated by a scale factor of 2. The area of the image is how many times the area of the original? (Write a whole number or fraction.)

Dilations & Scale Factor · 14

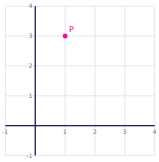
A dilation maps P(8, -8) to P'(20, -20). What is the scale factor?

Dilations & Scale Factor · 15

A figure is dilated by a scale factor of $\frac{1}{3}$. The area of the image is how many times the area of the original? (Write a whole number or fraction.)

Dilations & Scale Factor · 16

Dilate P(1, 3) by a scale factor of 2. What are the coordinates of P'?



Dilations & Scale Factor · 10

ANSWER

36

Dilations & Scale Factor · 9

ANSWER

4

Dilations & Scale Factor · 12

ANSWER

3

Dilations & Scale Factor · 11

ANSWER

(8, -8)

Dilations & Scale Factor · 14

ANSWER

$$\frac{5}{2}$$

Dilations & Scale Factor · 13

ANSWER

4

Dilations & Scale Factor · 16

ANSWER

(2, 6)

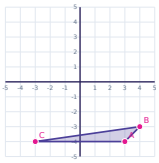
Dilations & Scale Factor · 15

ANSWER

$$\frac{1}{9}$$

Dilations & Scale Factor · 17

Triangle ABC is dilated by a scale factor of 4. What are the coordinates of A'?

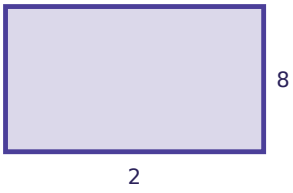


Dilations & Scale Factor · 18

A dilation maps P(2, 4) to P'(1, 2). What is the scale factor?

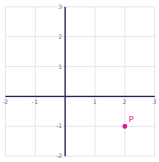
Dilations & Scale Factor · 19

A rectangle is 2 units long and 8 units wide. It is dilated by a scale factor of 3. How long is the longer side of the image?



Dilations & Scale Factor · 20

Dilate P(2, -1) by a scale factor of 2. What are the coordinates of P'?

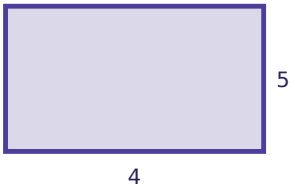


Dilations & Scale Factor · 21

A dilation maps P(-8, -4) to P'(-4, -2). What is the scale factor?

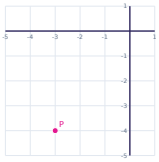
Dilations & Scale Factor · 22

A rectangle is 4 units long and 5 units wide. It is dilated by a scale factor of 4. How long is the longer side of the image?



Dilations & Scale Factor · 23

Dilate P(-3, -4) by a scale factor of 3. What are the coordinates of P'?



Dilations & Scale Factor · 24

A dilation maps P(-3, 1) to P'(-9, 3). What is the scale factor?

Dilations & Scale Factor · 18

ANSWER

$\frac{1}{2}$

Dilations & Scale Factor · 17

ANSWER

(12, -16)

Dilations & Scale Factor · 20

ANSWER

(4, -2)

Dilations & Scale Factor · 19

ANSWER

24

Dilations & Scale Factor · 22

ANSWER

20

Dilations & Scale Factor · 21

ANSWER

$\frac{1}{2}$

Dilations & Scale Factor · 24

ANSWER

3

Dilations & Scale Factor · 23

ANSWER

(-9, -12)