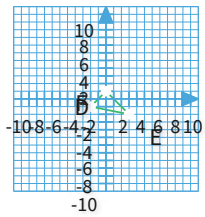


#1

Write the coordinates of the vertices after a dilation with a scale factor of 5, centered at the origin.

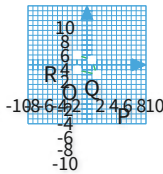


- | | | |
|-------------------------------------|-------------------------------------|-------------------------------------|
| <input type="radio"/> $D'(0, 5)$ | <input type="radio"/> $D'(0, 5)$ | <input type="radio"/> $D'(0, 5)$ |
| <input type="radio"/> $E'(15, -11)$ | <input type="radio"/> $E'(16, -10)$ | <input type="radio"/> $E'(15, -10)$ |
| <input type="radio"/> $F'(-10, -5)$ | <input type="radio"/> $F'(-10, -6)$ | <input type="radio"/> $F'(-10, -5)$ |

Show your work

#2

Write the coordinates of the vertices after a dilation with a scale factor of 4, centered at the origin.

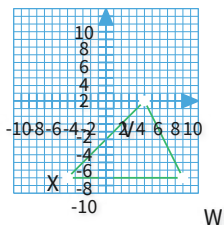


- | | | |
|------------------------------------|------------------------------------|------------------------------------|
| <input type="radio"/> $O'(4, 4)$ | <input type="radio"/> $O'(4, 4)$ | <input type="radio"/> $O'(4, 4)$ |
| <input type="radio"/> $P'(8, -8)$ | <input type="radio"/> $P'(5, -8)$ | <input type="radio"/> $P'(8, -8)$ |
| <input type="radio"/> $Q'(-8, -3)$ | <input type="radio"/> $Q'(-8, -4)$ | <input type="radio"/> $Q'(-8, -4)$ |
| <input type="radio"/> $R'(-9, 8)$ | <input type="radio"/> $R'(-8, 7)$ | <input type="radio"/> $R'(-8, 8)$ |

Show your work

#3

Write the coordinates of the vertices after a dilation with a scale factor of $\frac{1}{5}$, centered at the origin.

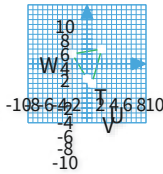


- | | | |
|------------------------------------|------------------------------------|------------------------------------|
| <input type="radio"/> $V'(1, 0)$ | <input type="radio"/> $V'(1, 0)$ | <input type="radio"/> $V'(1, 1)$ |
| <input type="radio"/> $W'(2, -2)$ | <input type="radio"/> $W'(2, -2)$ | <input type="radio"/> $W'(1, -2)$ |
| <input type="radio"/> $X'(-1, -3)$ | <input type="radio"/> $X'(-1, -2)$ | <input type="radio"/> $X'(-2, -3)$ |

Show your work

#4

Write the coordinates of the vertices after a dilation with a scale factor of 2, centered at the origin.

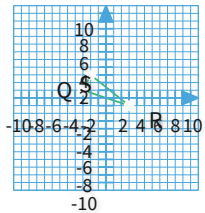


- | | | |
|-----------------------------------|-----------------------------------|-----------------------------------|
| <input type="radio"/> $T'(6, 6)$ | <input type="radio"/> $T'(-6, 6)$ | <input type="radio"/> $T'(6, -6)$ |
| <input type="radio"/> $U'(2, -8)$ | <input type="radio"/> $U'(2, -8)$ | <input type="radio"/> $U'(3, -8)$ |
| <input type="radio"/> $V'(0, -7)$ | <input type="radio"/> $V'(0, -6)$ | <input type="radio"/> $V'(0, -6)$ |
| <input type="radio"/> $W'(1, 4)$ | <input type="radio"/> $W'(-6, 4)$ | <input type="radio"/> $W'(-6, 5)$ |

Show your work

#5

Write the coordinates of the vertices after a dilation with a scale factor of 3, centered at the origin.

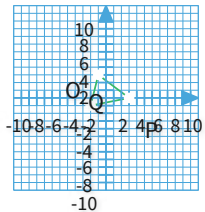


- | | | |
|-----------------------------------|-----------------------------------|-----------------------------------|
| <input type="radio"/> $Q'(-6, 9)$ | <input type="radio"/> $Q'(-6, 9)$ | <input type="radio"/> $Q'(-6, 9)$ |
| <input type="radio"/> $R'(9, -3)$ | <input type="radio"/> $R'(7, -3)$ | <input type="radio"/> $R'(9, -4)$ |
| <input type="radio"/> $S'(-9, 3)$ | <input type="radio"/> $S'(-9, 4)$ | <input type="radio"/> $S'(-9, 3)$ |

Show your work

#6

Write the coordinates of the vertices after a dilation with a scale factor of 3, centered at the origin.

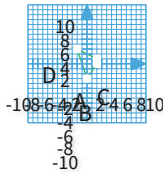


- | | | |
|------------------------------------|------------------------------------|------------------------------------|
| <input type="radio"/> $O'(-3, 9)$ | <input type="radio"/> $O'(-3, 9)$ | <input type="radio"/> $O'(-3, 9)$ |
| <input type="radio"/> $P'(9, 1)$ | <input type="radio"/> $P'(9, 0)$ | <input type="radio"/> $P'(10, 0)$ |
| <input type="radio"/> $Q'(-6, -3)$ | <input type="radio"/> $Q'(-6, -3)$ | <input type="radio"/> $Q'(-6, -4)$ |

Show your work

#7

Write the coordinates of the vertices after a dilation with a scale factor of 3, centered at the origin.



- | | | | | | |
|-----------------------|-------------|-----------------------|-------------|-----------------------|--------------|
| <input type="radio"/> | $A'(6, 3)$ | <input type="radio"/> | $A'(6, 3)$ | <input type="radio"/> | $A'(6, 3)$ |
| <input type="radio"/> | $B'(6, 0)$ | <input type="radio"/> | $B'(6, 0)$ | <input type="radio"/> | $B'(4, 0)$ |
| <input type="radio"/> | $C'(0, -8)$ | <input type="radio"/> | $C'(0, -9)$ | <input type="radio"/> | $C'(0, -9)$ |
| <input type="radio"/> | $D'(1, 9)$ | <input type="radio"/> | $D'(-6, 9)$ | <input type="radio"/> | $D'(-6, 10)$ |

Show your work

#8

Write the coordinates of the vertices after a dilation with a scale factor of $\frac{1}{4}$, centered at the origin.



$$L(-4, 8) \rightarrow L'(\boxed{}, \boxed{})$$

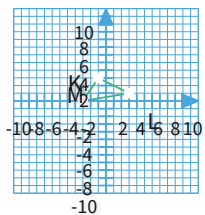
$$M(4, 0) \rightarrow M'(\boxed{}, \boxed{})$$

$$N(-8, -4) \rightarrow N'(\boxed{}, \boxed{})$$

Show your work

#9

Write the coordinates of the vertices after a dilation with a scale factor of 3, centered at the origin.

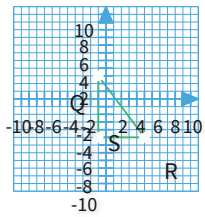


- | | | | | | |
|-----------------------|-------------|-----------------------|-------------|-----------------------|-------------|
| <input type="radio"/> | $K'(-3, 9)$ | <input type="radio"/> | $K'(-3, 9)$ | <input type="radio"/> | $K'(-3, 9)$ |
| <input type="radio"/> | $L'(9, 3)$ | <input type="radio"/> | $L'(6, 3)$ | <input type="radio"/> | $L'(9, 2)$ |
| <input type="radio"/> | $M'(-9, 0)$ | <input type="radio"/> | $M'(-9, 1)$ | <input type="radio"/> | $M'(-9, 0)$ |

Show your work

#10

Write the coordinates of the vertices after a dilation with a scale factor of 2, centered at the origin.



- | | | |
|------------------------------------|-------------------------------------|-------------------------------------|
| <input type="radio"/> $Q'(-2, 6)$ | <input type="radio"/> $Q'(-2, 6)$ | <input type="radio"/> $Q'(-2, 6)$ |
| <input type="radio"/> $R'(8, -10)$ | <input type="radio"/> $R'(10, -9)$ | <input type="radio"/> $R'(10, -10)$ |
| <input type="radio"/> $S'(-2, -9)$ | <input type="radio"/> $S'(-2, -10)$ | <input type="radio"/> $S'(-2, -10)$ |

Show your work

#11

Write the coordinates of the vertices after a dilation with a scale factor of 2, centered at the origin.



$$S(-1, 3) \rightarrow S'(\boxed{}, \boxed{})$$

$$T(5, 2) \rightarrow T'(\boxed{}, \boxed{})$$

$$U(-5, -2) \rightarrow U'(\boxed{}, \boxed{})$$

Show your work

#12

Write the coordinates of the vertices after a dilation with a scale factor of 4, centered at the origin.



$$J(-1, 1) \rightarrow J'(\boxed{}, \boxed{})$$

$$K(1, -1) \rightarrow K'(\boxed{}, \boxed{})$$

$$L(-1, -2) \rightarrow L'(\boxed{}, \boxed{})$$

Show your work

Question	Answer
#1	choice 3
#2	choice 3
#3	choice 2
#4	choice 2
#5	choice 1
#6	choice 2
#7	choice 2
#8	-1, 1, -2, 2, 0, -1
#9	choice 1
#10	choice 3
#11	-2, 10, -10, 6, 4, -4
#12	-4, 4, -4, 4, -4, -8