

NAME: _____

1. 010210b, P.I. G.G.58

Which transformation is *not* an isometry?

- [A] $R_{0,90^\circ}$ [B] $r_{y=x}$ [C] D_2 [D] $T_{3,6}$

2. 080308b, P.I. G.G.58

Which transformation is *not* an isometry?

- [A] rotation [B] translation
[C] line reflection [D] dilation

3. 080916b

If the dilation D_k is an isometry, what must be the value of k ?

- [A] 2 [B] -2 [C] 0 [D] 1

4. 080105b, P.I. G.G.54

Which transformation is a direct isometry?

- [A] D_2 [B] D_{-2} [C] $T_{2,5}$ [D] $r_{y\text{-axis}}$

5. 060313b, P.I. G.G.54

Which transformation is an opposite isometry?

- [A] line reflection [B] translation
[C] rotation of 90° [D] dilation

6. 010507b, P.I. G.G.61

Which transformation is an example of an opposite isometry?

- [A] $(x,y) \rightarrow (3x,3y)$
[B] $(x,y) \rightarrow (x+3,y-6)$
[C] $(x,y) \rightarrow (y,-x)$ [D] $(x,y) \rightarrow (y,x)$

7. 060218b, P.I. G.G.54

Which transformation does *not* preserve orientation?

- [A] translation [B] dilation
[C] rotation
[D] reflection in the y -axis

[1] C _____

[2] D _____

[3] D _____

[4] C _____

[5] A _____

[6] D _____

[7] D _____