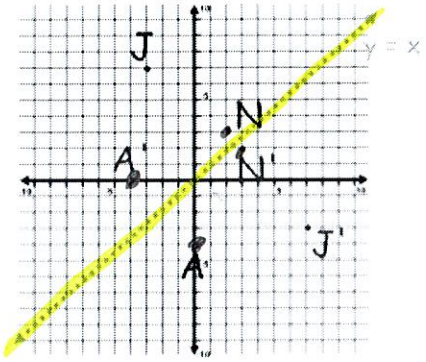
Geometry DAY 1.4 Name: _____

Video Notes – Reflections, Day 2 Date: _____

Line of Reflection: y = x

Pre-Image	Image
J (–3, 7)	J' (7, –3)
A (0, –4)	A' (–4, 0)
N (2, 3)	N' (3, 2)

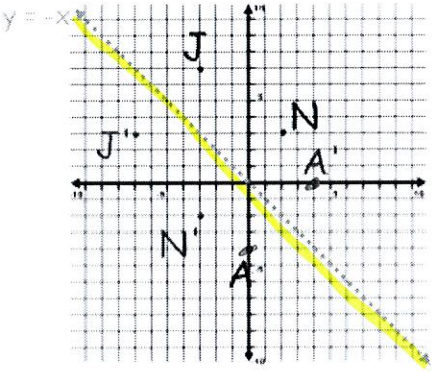


When reflecting a point in the line y = x, what happens to the coordinates? They switch places

So, (x, y) becomes (y, x)

Line of Reflection: y = -x

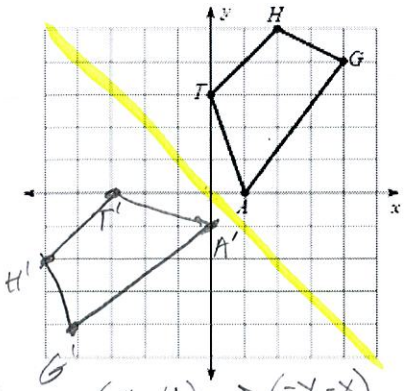
Pre-Image	Image
J (–3, 7)	J' (–7, 3)
A (0, –4)	A' (4, 0)
N (2, 3)	N' (–3, –2)



When reflecting a point in the line y = -x, what happens to the coordinates? They switch places & switch signs

So, (x, y) becomes (–y, –x)

Ex. 1 Reflect over y = -x.



(x, y) → (–y, –x)

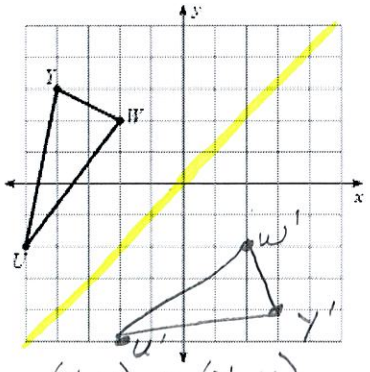
A (1, 0) → A' (0, –1)

T (0, 3) → T' (–3, 0)

H (2, 5) → H' (–5, –2)

G (4, 4) → G' (–4, –4)

Ex. 2 Reflect over y = x.



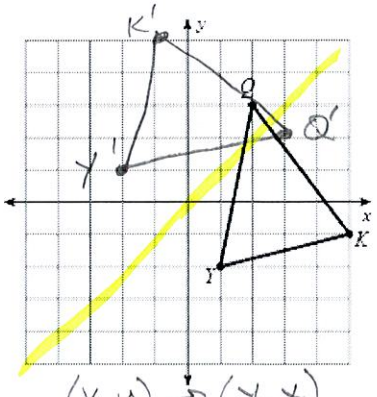
(x, y) → (y, x)

Y (–4, 3) → Y' (3, –4)

U (–5, –2) → U' (–2, –5)

W (–2, 2) → W' (2, –2)

Ex. 3 Reflect over y = x.



(x, y) → (y, x)

K (5, –1) → K' (–1, 5)

Y (1, –2) → Y' (–2, 1)

Q (2, 3) → Q' (3, 2)