take 1/2 sheet graph paper her this

Includes reflecting across non-axis lines, etc. Geometry Homework over transformations and congruence

correct answer For 1-7: On your own paper...write down coordinates, show any work, circle

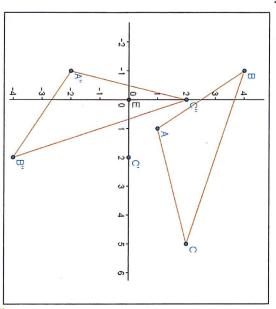
- If $P(x,y)\rightarrow P'(x+3,y-4)$ and P' is (3,-5), what is P?
- 2) Point A has coordinates (-2,-4) and A' has coordinates (2, -4). What is the axis of reflection?
- ω If point B(11,5) is rotated 270° counter-clockwise, what will be the coordinates of B'?
- If point C(-5,11) is rotated 90°, what will be the coordinates of point C'?
- 5 4 If Δ CHK is translated (-2,6) to create the image Δ C'H'K', and Δ C'H'K' is transform ΔCHK to ΔC"H"K"? translated (5,-11) to create ΔC"H"K", what is the single rule that will
- Describe a glide reflection as a composition of two transformations.
- What is a rule that will reflect any figure across y=x?

For 8-10: You may use graph paper if wanted. Show all work

- same result? and then the y-axis? What single transformation and its rule can give the are the coordinates of C'O'W'B' when COWB is reflected across the x-axis 8) Polygon COWB has coordinates C(-5, 2), O(-4,6), W(0,7), B(-1,3). What
- 9) Reflect ΔXYZ across y=2 to find the vertices of $\Delta X'Y'Z'$

X(-3,1), Y(1,5), Z(4,0)

(no rules necessary). 10) Are the following polygons congruent based on the definitions we learned? Justify your reasoning by a series of mappings explained in words



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- If $P(x,y)\rightarrow P'(x+3,y-4)$ and P' is (3,-5), what is P?
- Point A has coordinates (-2,-4) and A' has coordinates (2, -4). What is
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- (1) If point B(11,5) is rotated 270° counter-clockwise, what will be the coordinates of B'?
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- \mathbf{L}_{3}) If Δ CHK is translated (-2,6) to create the image Δ C'H'K', and Δ C'H'K' is transform ΔCHK to ΔC"H"K"? translated (5,-11) to create $\Delta C''H''K''$, what is the single rule that will
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