PRACTICE – ORDER OF OPERATIONS Name_____

Solve. Show ALL work, neatly. Complete one calculation per step.

1. $3 + 20 \cdot 3^2 - 7$

2. $2 \cdot 3 - 9(4 \div 2)^2$

3. $20 + 8 \div 2 \cdot 3 + 4$

4. $3 - [4 \div (2 + 2) + 1]$

5. $6 - (8 - 12)^2 + 8 \div 2$

6. $(6 + 2^3) \div (17 - 6 \cdot 2)$

7. $2(3 - 5 + 6) + 5$

8. $5 + 4[13 - (5 \div 4) - 3]^2$

9. $8 \div 4 + 4 \cdot 2$

10. $10(3 + 1) - 16$

11. $2 \cdot 3^2 - 9$

12. $\dfrac{5(4+3)}{12-7}$

13. $13 + (3 \cdot 2)^2 - 8$

14. $9^2 - 4(2)^2$

15. $12 - 3 \cdot 2^2 + 6(5 + 9)$
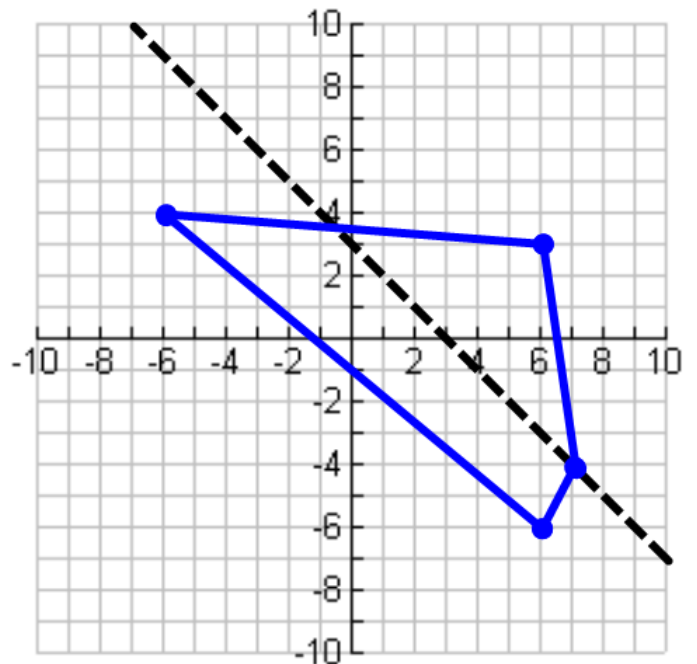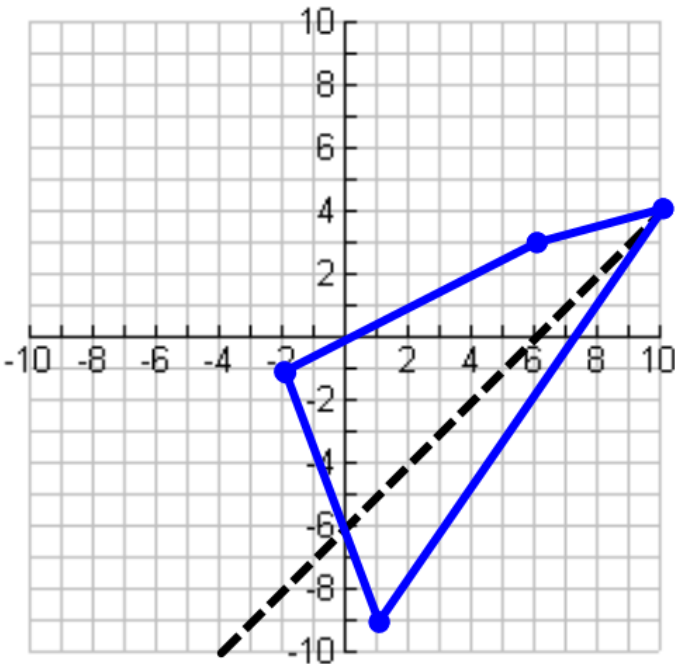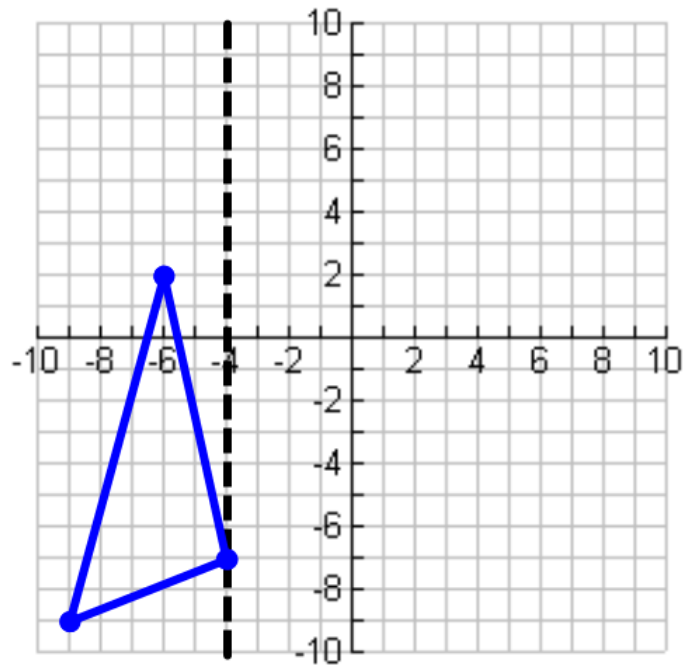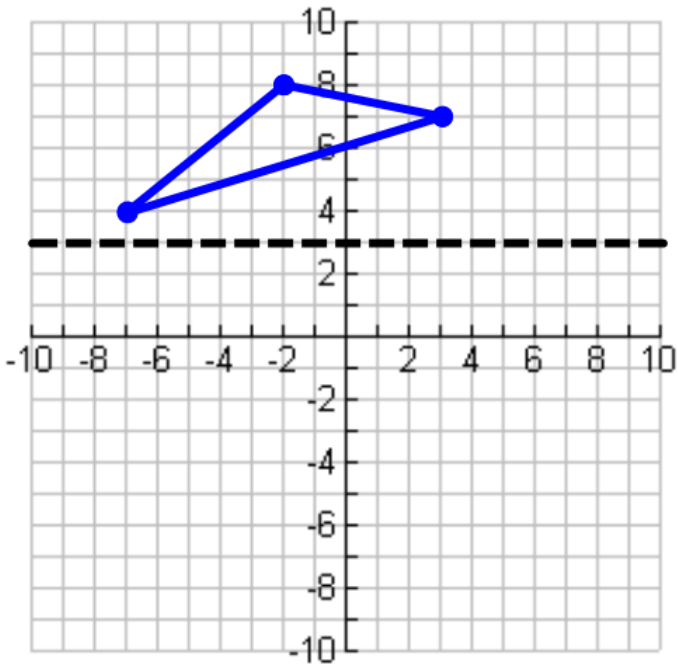
16. $8 + (9 - 5)10 \div 2(7 + 3 \cdot 5)$

17. $3(5)^2 + (5 + 2^2)4 \div 2$
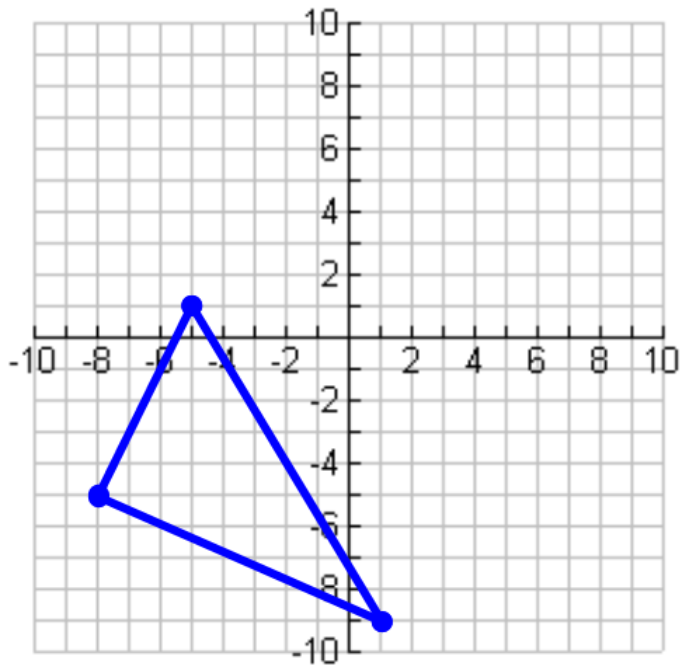
18. $\dfrac{16 \div (10 - 2)}{5 - 3 \cdot 2 + 7}$

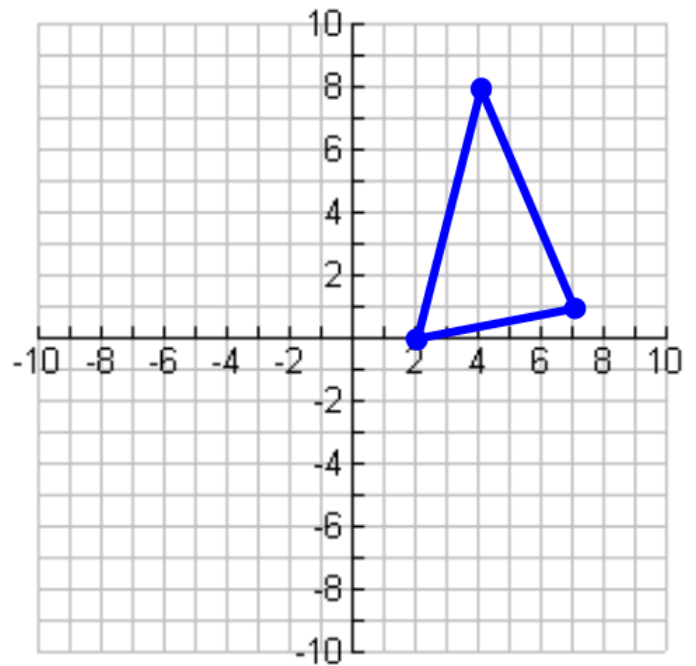**PRACTICE – TRANSFORMATIONS 1**   Name _____

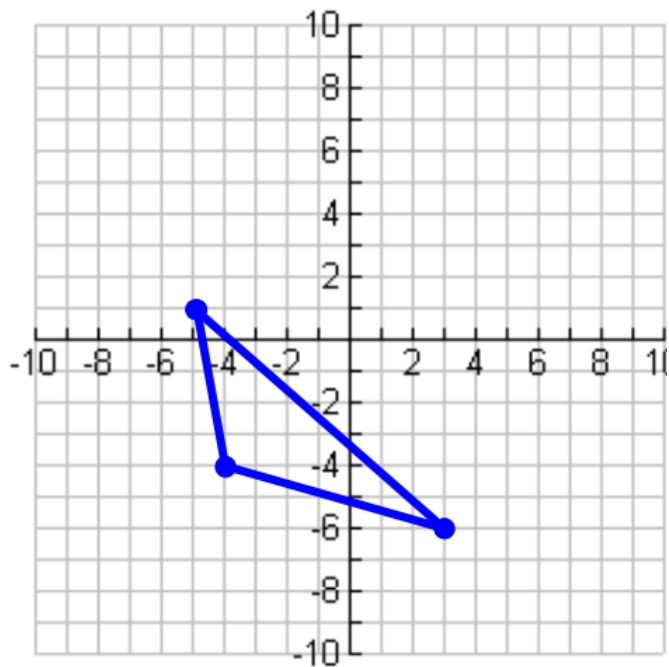Reflect the figure across the given line of reflection.

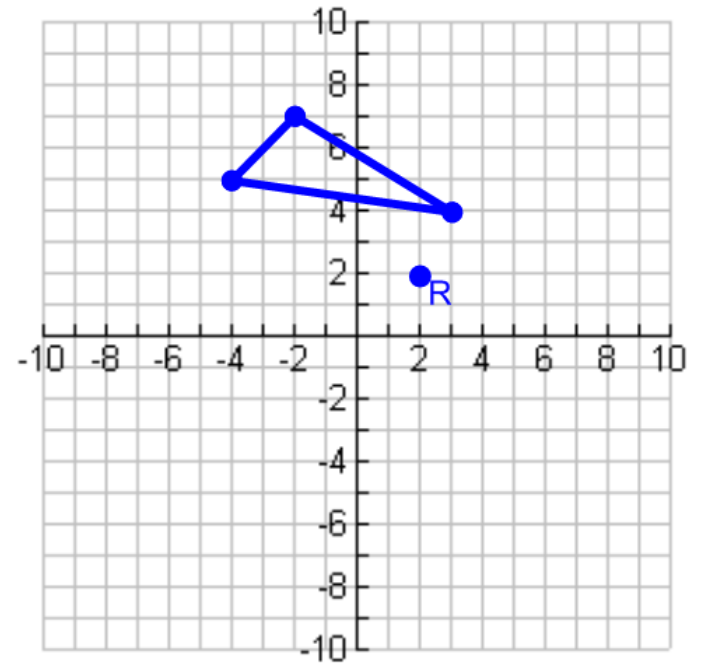Translate the figure right 6 units and up 4 units.

Rotate the figure 90° clockwise about the origin.
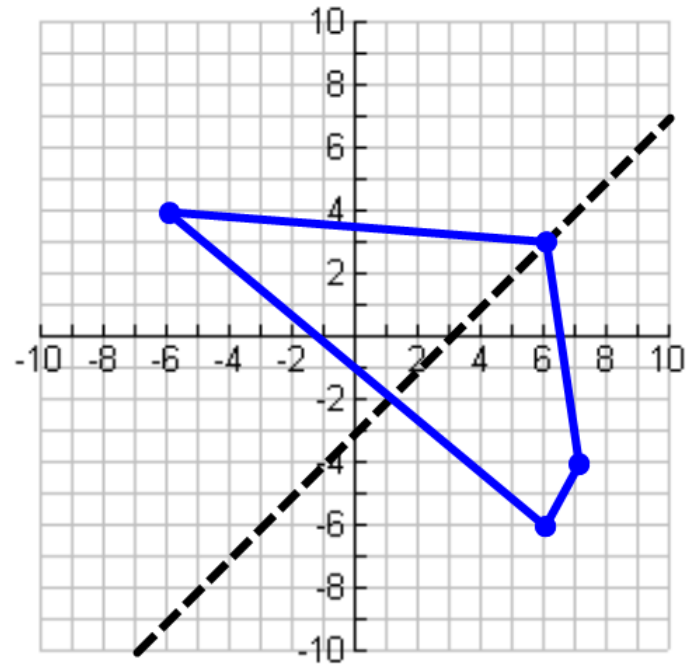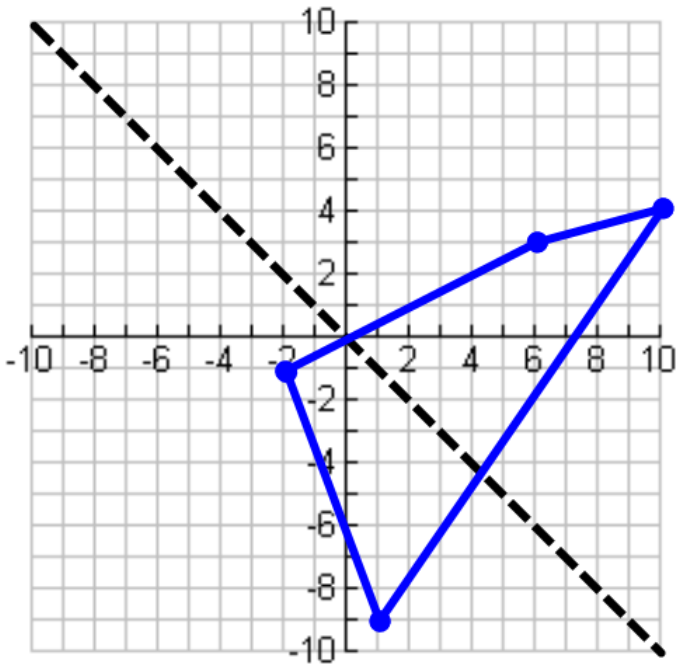

Rotate the figure 180° about the origin.
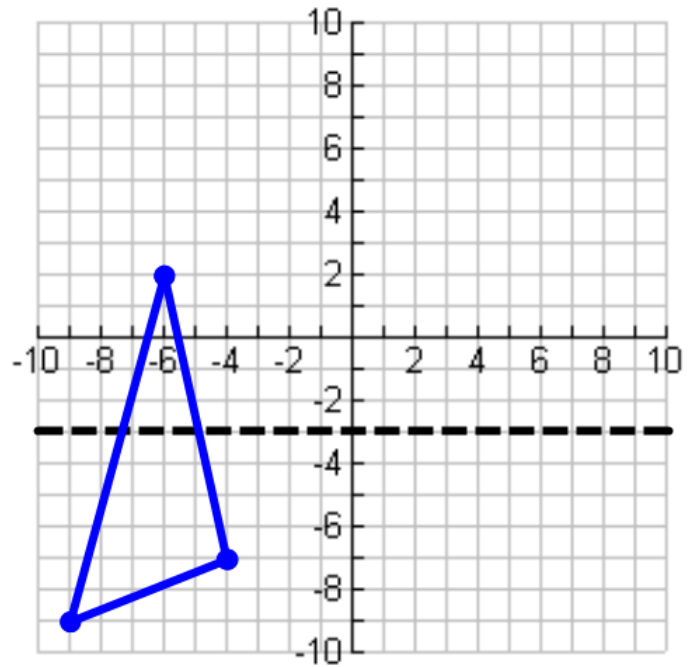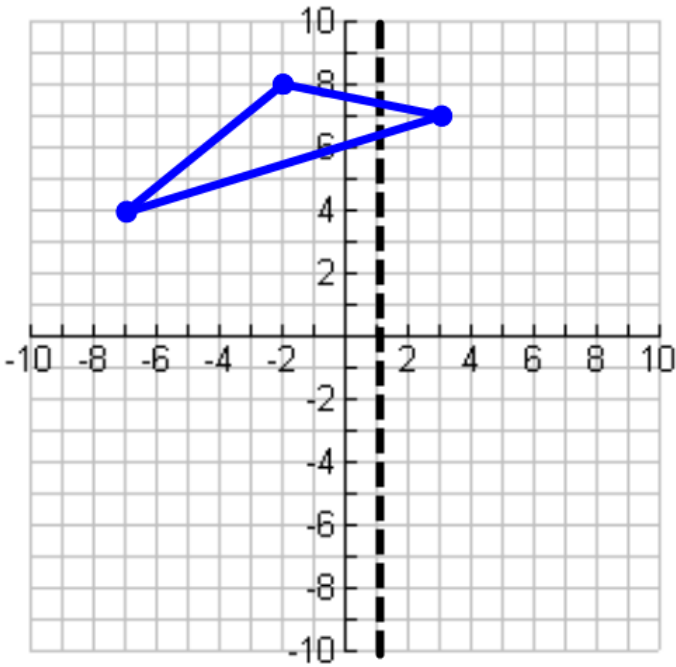

Rotate the figure 90° counterclockwise about point R.

PRACTICE – TRANSFORMATIONS 2   Name _____

Reflect the figure across the given line of reflection.

Translate the figure right 8 units and up 5 units.

Rotate the figure 90° clockwise about the origin.

Rotate the figure 180° about the origin.
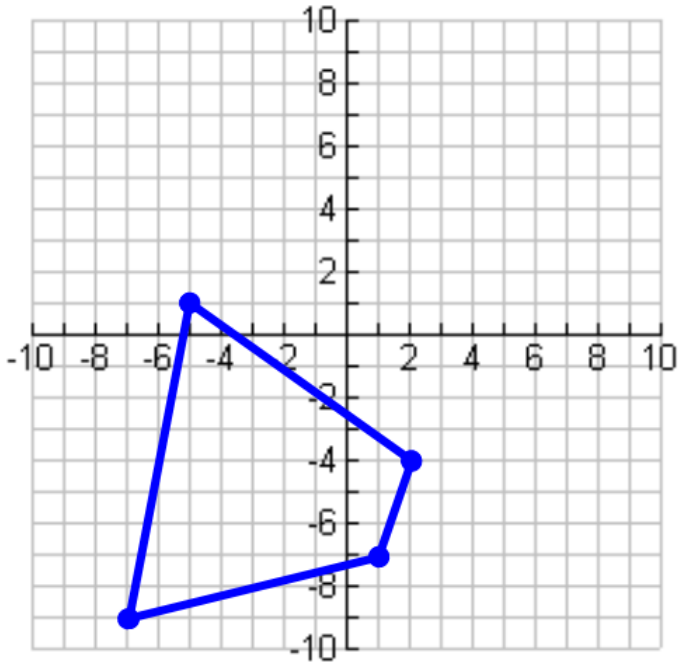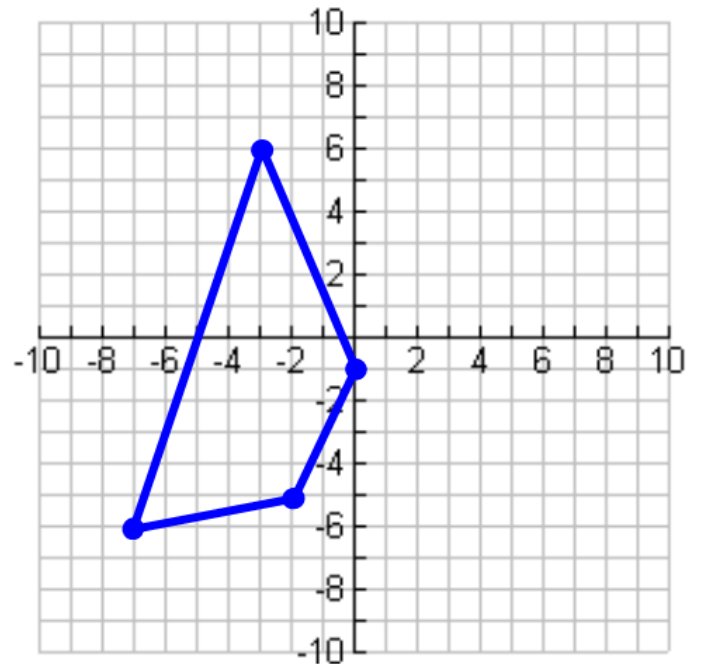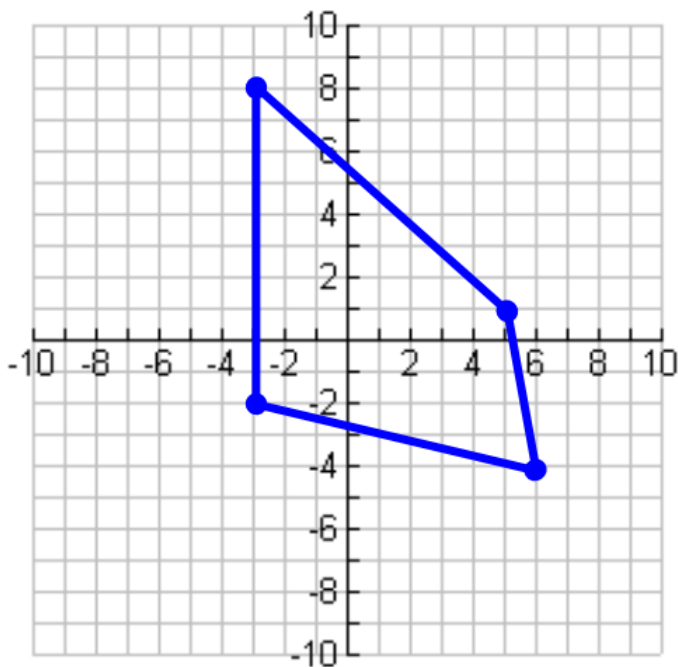

Rotate the figure 90° counterclockwise about point R.