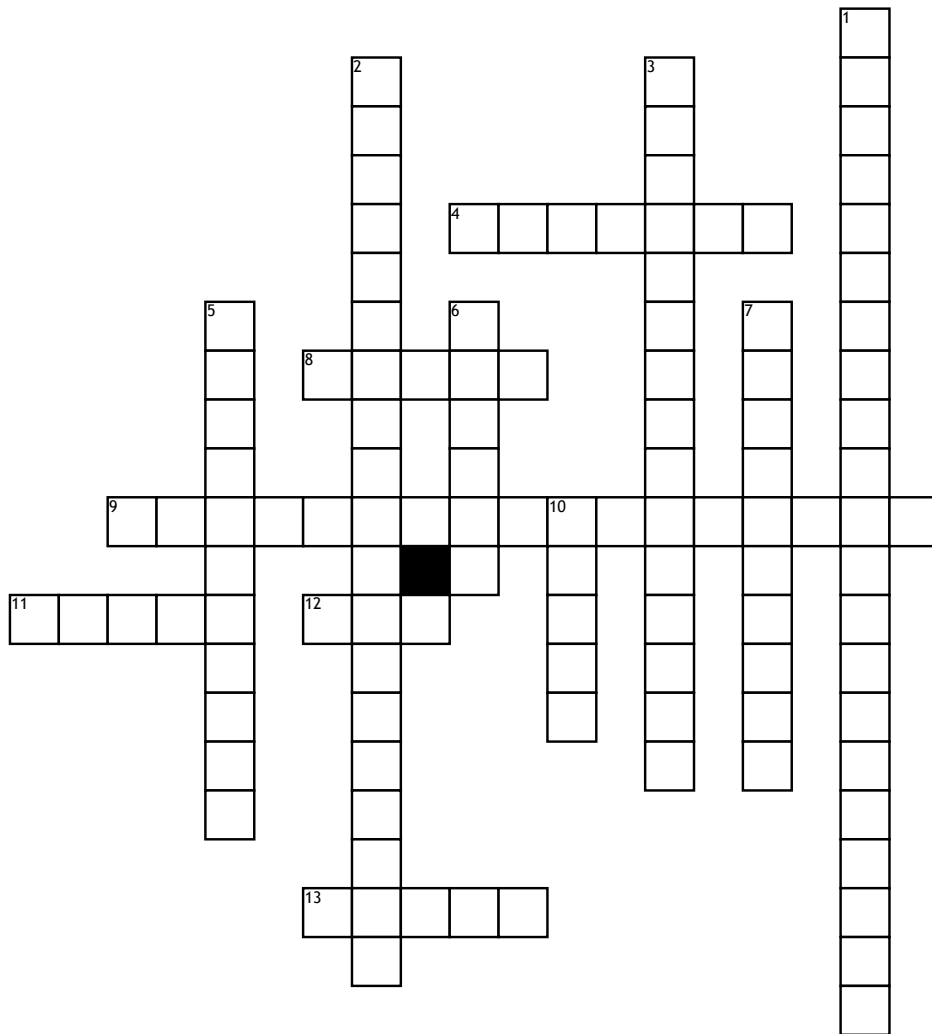


# Transformation of Radical Functions



**Across**

- 4. What transformation results in pulling the function towards an axis?
- 8. What axis is affected when  $b < 0$ ?
- 9. What transformation occurs when  $0 < b < 1$ ?
- 11. What axis is affected when  $a < 0$ ?

12. What transformation occurs when  $k = 2$ ?

13. What transformation occurs when  $k = -2$ ?

**Down**

- 1. What transformation occurs when  $b > 1$ ?
- 2. What transformation occurs when  $0 < a < 1$ ?
- 3. What transformation occurs when  $a > 1$ ?

- 5. What type of transformation pushes the function away from the axis?
- 6. What transformation occurs when  $h = +2$ ?
- 7. What type of transformation occurs when  $a < 0$ ?
- 10. What transformation occurs when  $h = -2$ ?

**Word Bank**

- |            |                      |                    |                        |
|------------|----------------------|--------------------|------------------------|
| Down2      | Vertical Compression | Vertical stretch   | Left2                  |
| Stretch    | yaxis                | Horizontal stretch | Horizontal compression |
| Reflection | xaxis                | Right2             | Compression            |
| Up2        |                      |                    |                        |