

### Graphing Relations: Transformations Intro B

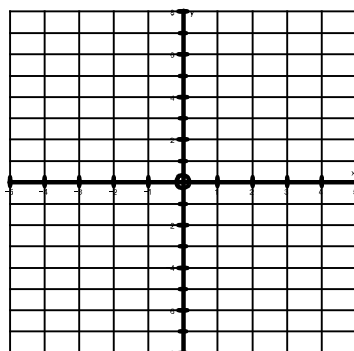
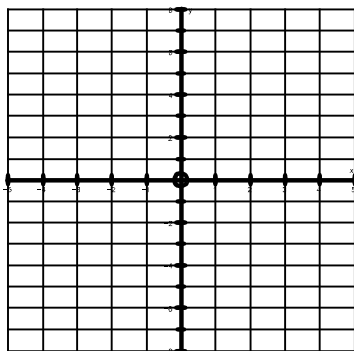
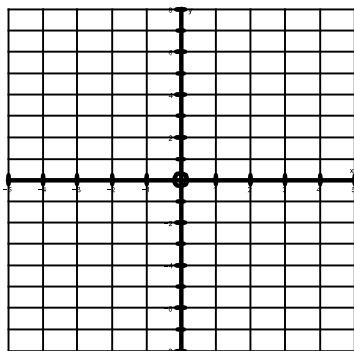
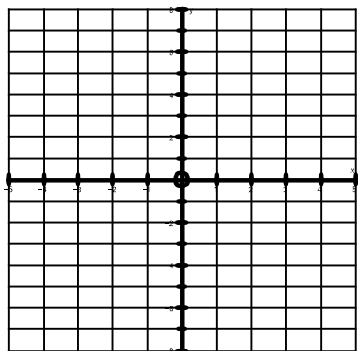
Graph the following equations with their parent graphs. Describe the transformation beneath each graph. Give the x and y intercepts.

1)  $y = x + 4$

2)  $y = |x| - 3$

3)  $y = x^2 - 1$

4)  $y = 2^x - 1$



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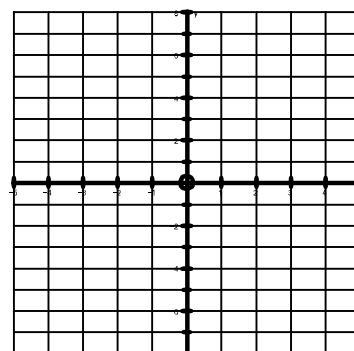
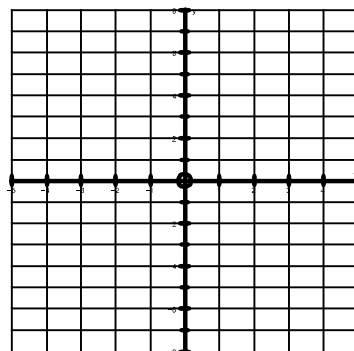
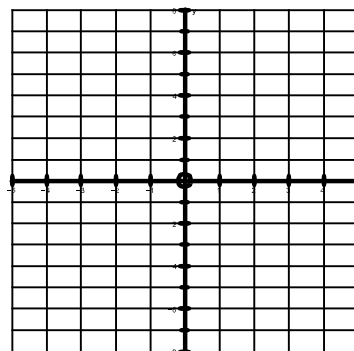
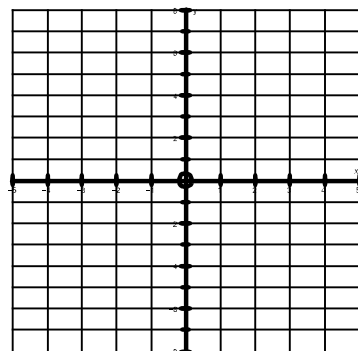
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5)  $y = |x + 4|$

6)  $y = \sqrt{x + 5}$

7)  $y = -x$

8)  $y = x^2 + 3$



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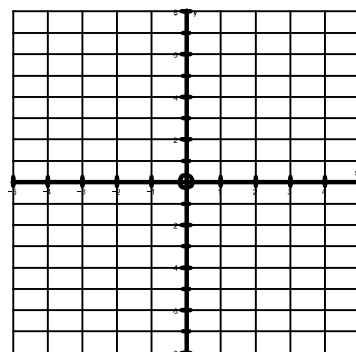
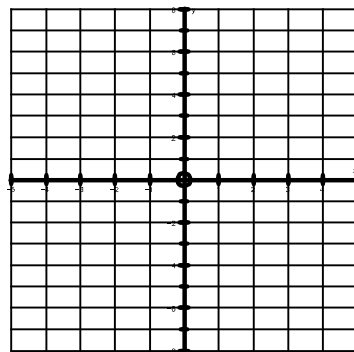
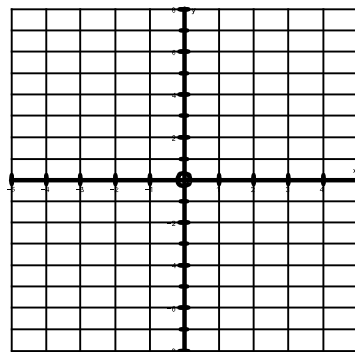
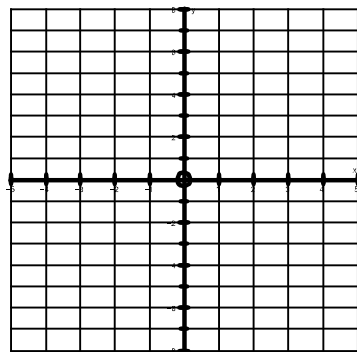
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9)  $y = \sqrt{x} - 4$

10)  $y = -|x|$

11)  $y = -2^x$

12)  $y = -x^2$



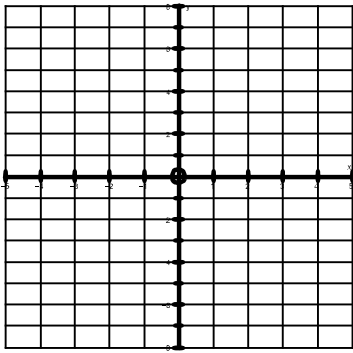
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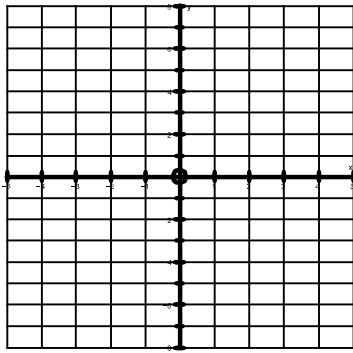
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13)  $y = -(x + 2)^2$



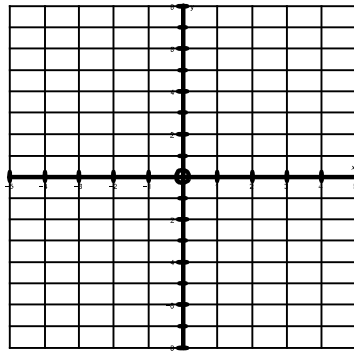
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14)  $y = -2^x + 1$



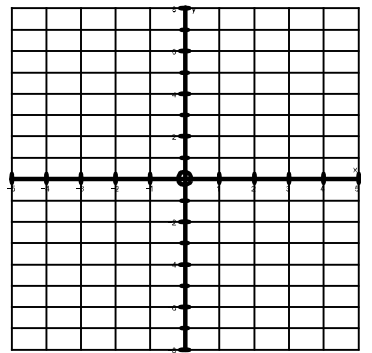
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15)  $y = -\sqrt{x}$



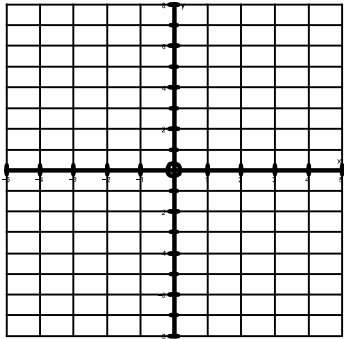
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16)  $y = -|x|$



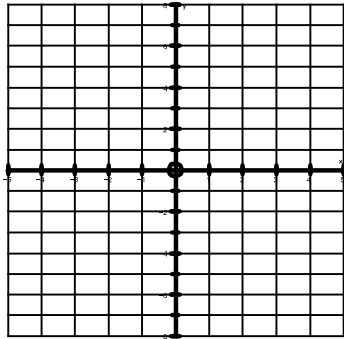
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17)  $y = -2^x + 3$



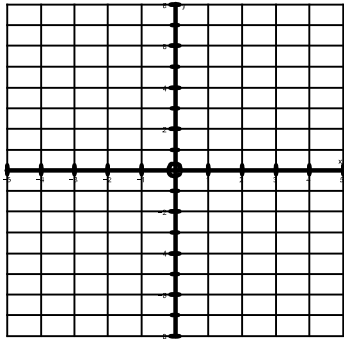
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18)  $y = -x^2 + 4$



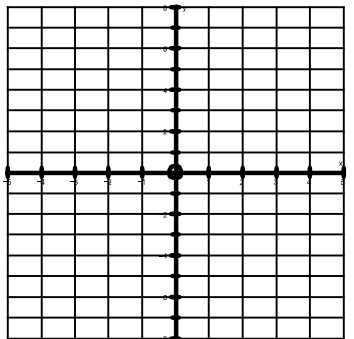
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19)  $y = |x + 3| - 3$



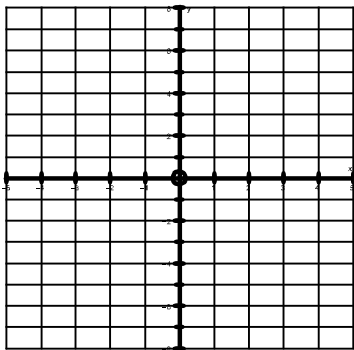
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20)  $y = |x - 3| + 2$



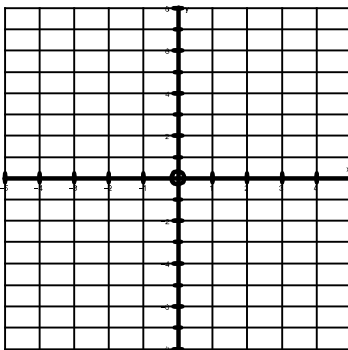
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21)  $y = \sqrt{x + 1} - 5$



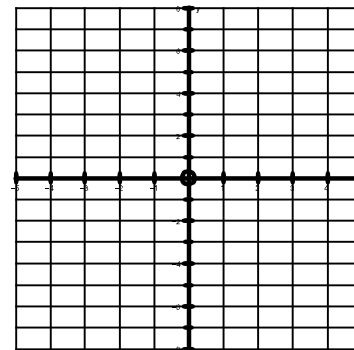
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22)  $y = (x - 2)^2 - 4$



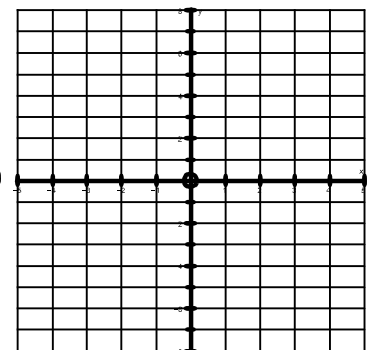
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23)  $y = -x + 3$



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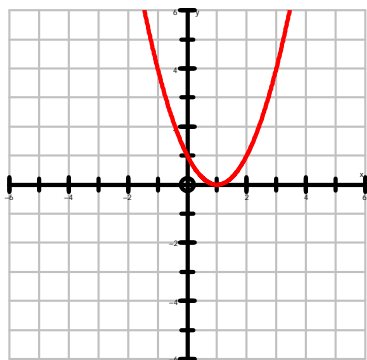
24)  $y = -\sqrt{x - 4}$



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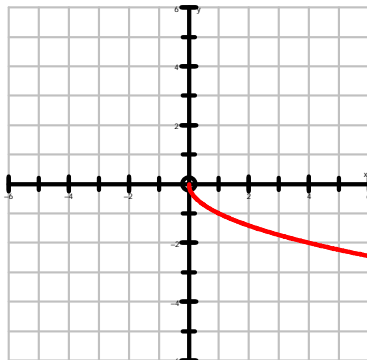
Given the graph of an equation, identify the parent equation, describe the transformations, and write the equation. Label the x and y intercepts.

25)



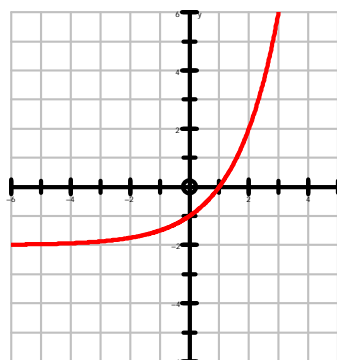
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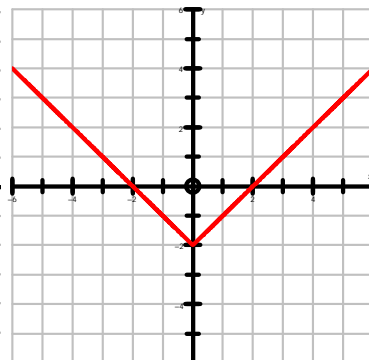
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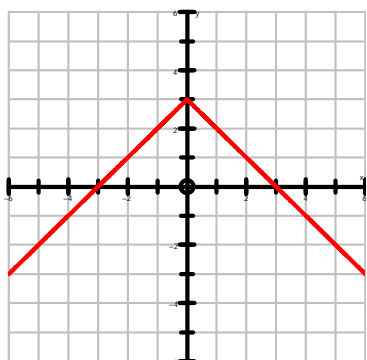
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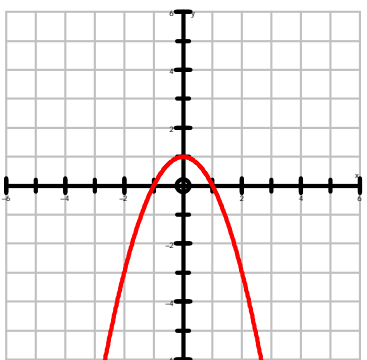
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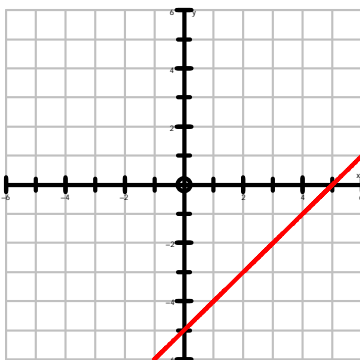
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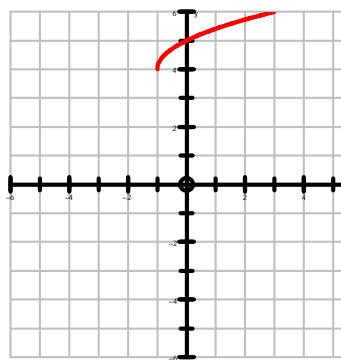
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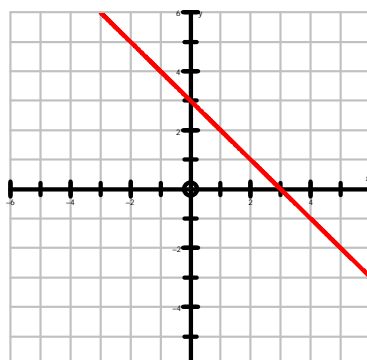
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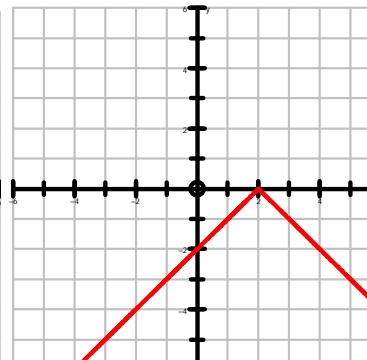
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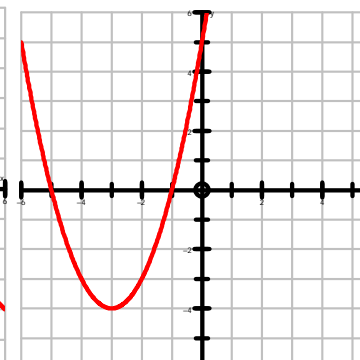
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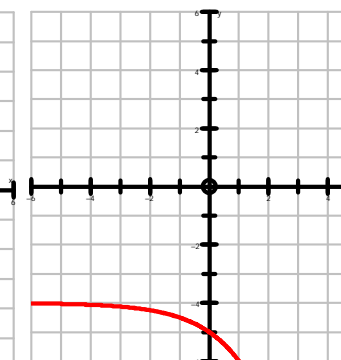
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35)



H:  
R:  
V:

36)



H:  
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