

#24

Given the function $y = m(x)$, pick 9 of the following equations. Write down all the transformations and graph them.

Double transformations:

1. $y = -m(x+4)$

2. $y = 3m(x-2)$

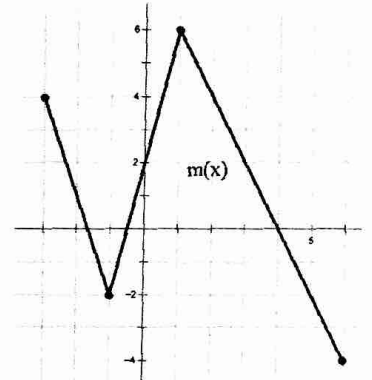
3. $y = 3 + m(-x)$

Triple transformations:

4. $y = \frac{1}{2}m(x-4) - 3$

5. $y = -m\left(\frac{2+x}{3}\right)$

6. $y = 4m(3-x)$



Quadruple transformations:

7. $y = 5 - m(3-x)$

8. $y = -3m\left(\frac{4+x}{2}\right)$

9. $y = 2 + m\left(\frac{3-x}{4}\right)$

Quintuple transformations:

10. $y = 3 + 5m\left(\frac{-(x+2)}{4}\right)$

11. $y = -2m\left(\frac{-(x-3)}{5}\right)$

12. $y = -5 - 3\left(\frac{x-4}{2}\right)$

Sextuple transformations!!

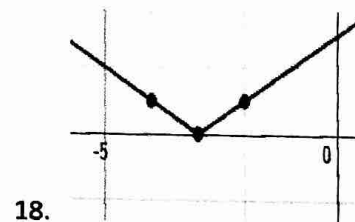
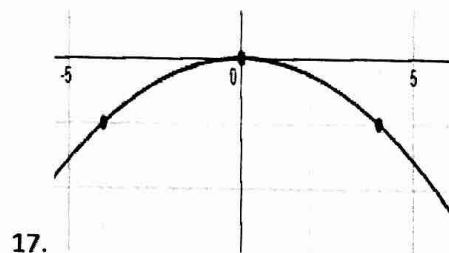
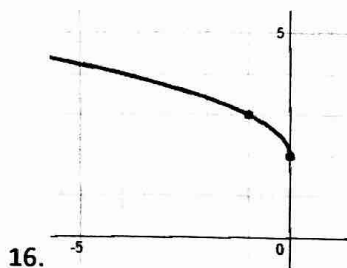
13. $y = 2 - 4m\left(\frac{-(x+3)}{5}\right)$

14. $y = -3 - \frac{1}{2}m\left(\frac{-(x-5)}{4}\right)$

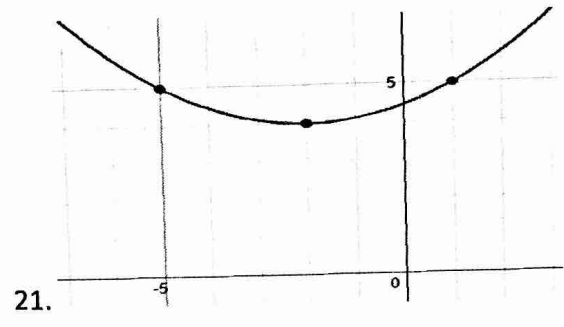
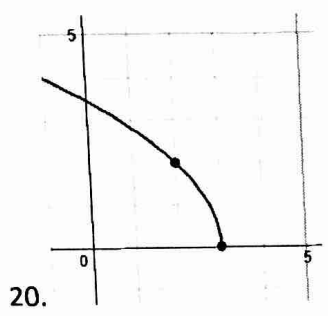
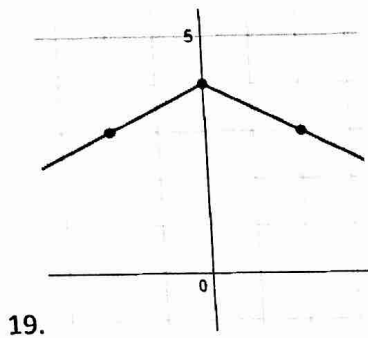
15. $y = 4 - 2m\left(\frac{-x-3}{5}\right)$

Write the equation for 9 of the following graphs:

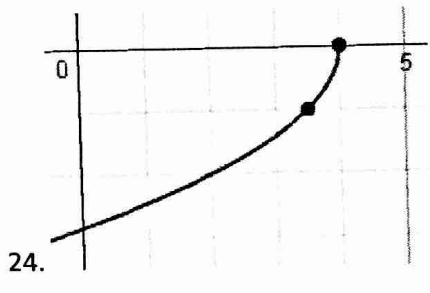
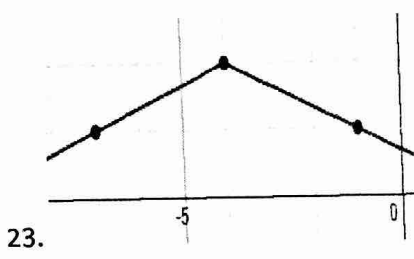
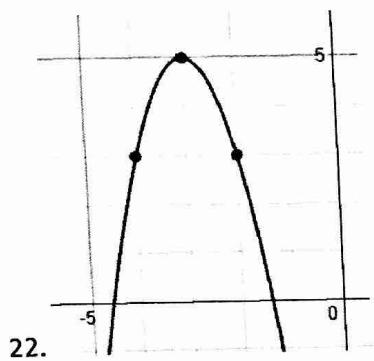
Double transformations:



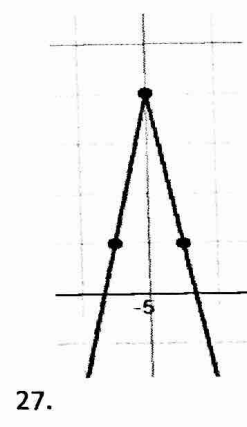
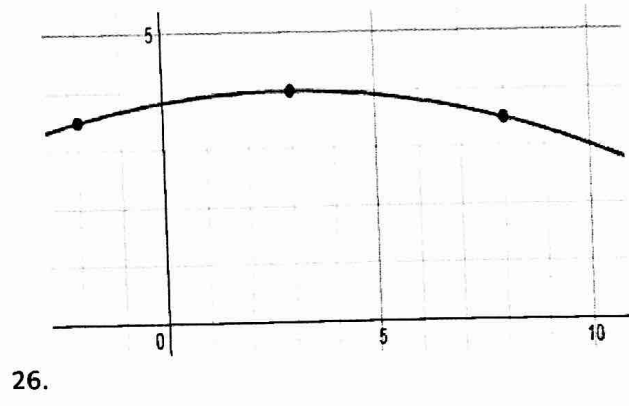
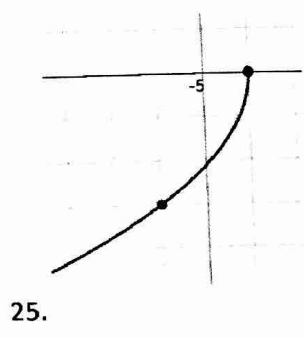
Triple transformations:



Quadruple transformations:



Quintuple transformations:



Sextuple transformations!!

