Week 13 Homework Name: answers

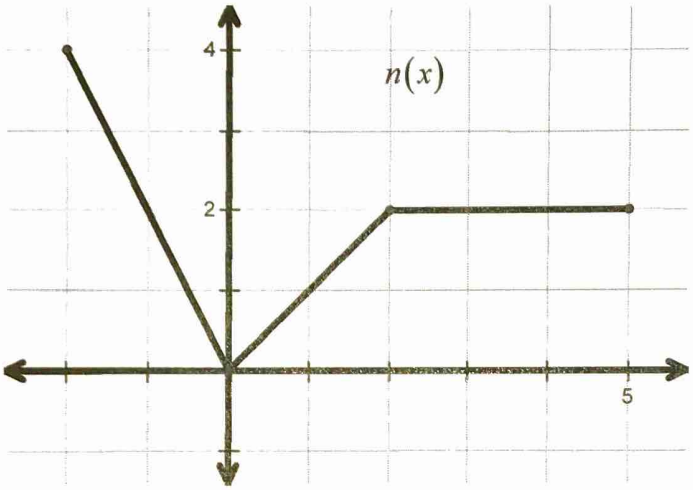
Absolute Value, Quadratics & Other

Graph each function.

1. $f(x)=x^2-3$
2. $g(x)=-|x+3|$
3. $h(x)=-(x-4)^2+2$
4. $j(x)=2|x|$
5. $k(x)=-x^2+5$
6. $y=\frac{1}{2}x^2$

Given the function $y=n(x)$, graph each transformed function.

7. $-n(x-2)$
over x, R2
8. $2\bullet n(x)+3$
VD2, U3

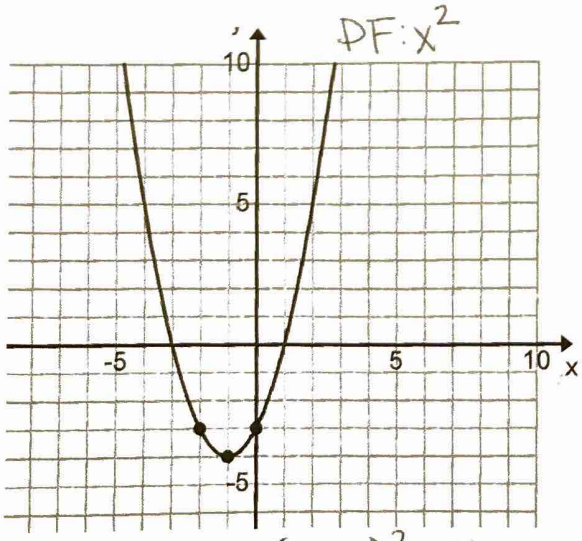


For the following functions, list the transformations. No need to graph.

9. $f(x)=x^2+6$
U6
10. $f(x)=3(x-1)^2-5$
VD3, R1, D5
11. $f(x)=-|x+4|-7$
over x-axis, L4, D7
12. $2\bullet f(-x)+9$
VD2, over y-axis, U9
13. $-f(x+1)$
over x-axis, L1
14. $-\frac{1}{2}\bullet f(-x)-6$
over x & y axis, VD1/2, D6

For the following graphs find the parent function and the equation of the graph.

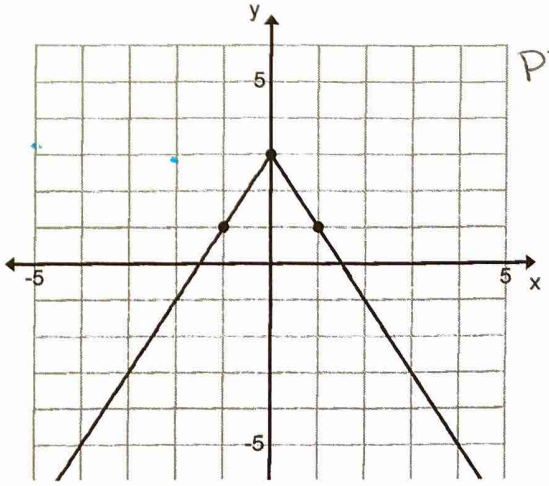
15.



PF: x^2

$y=(x+1)^2-4$

16.

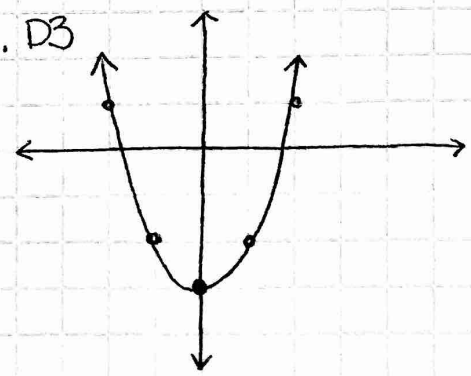


PF: $|x|$

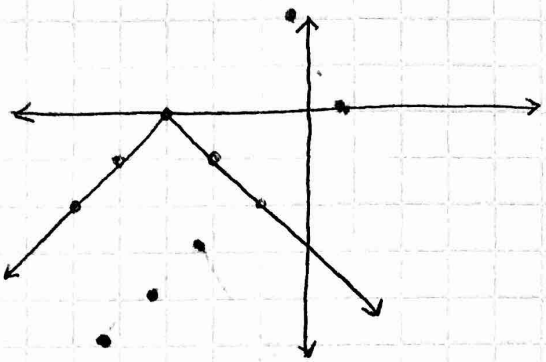
$y=-2|x|+3$

Week 13

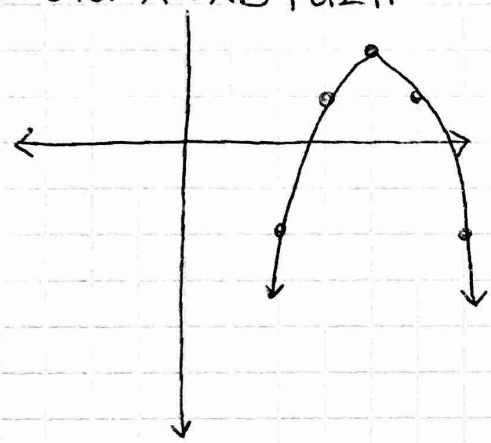
1. D3



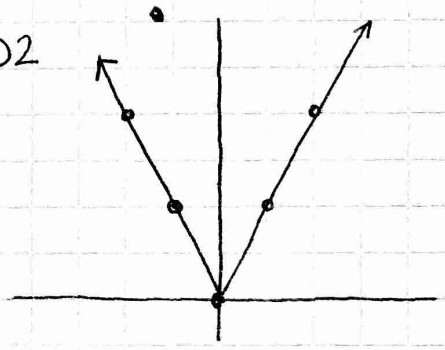
2. over x-axis, L3



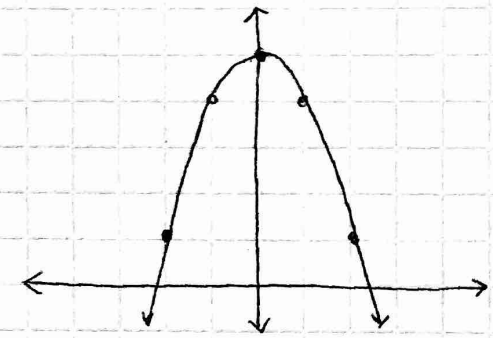
3. over x-axis, U2, R4



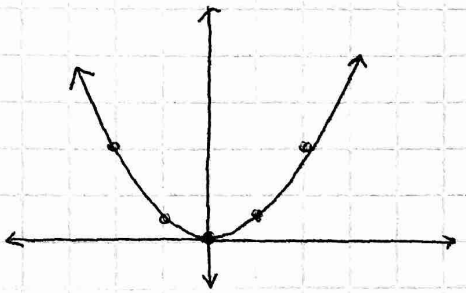
4. VD2



5. over x-axis, U5



6. VD by 1/2



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