WORKSHEET 6 – GRAPHING 2

Place your graphs in your notebook!

Make a 40 second (MAX!) sketch of each.

1. $y=-(x-2)^3+1$
2. $y=-\sqrt{x-1}$
3. $y=(x-4)^2-1$
4. $y=-|x+1|+3$
5. $y=-(x-1)^2(x+2)^3$
6. $y=\sin 4x$
7. $y=\tan x$
8. $y=-(x-2)^2(x+2)^2(x+4)^3(x-4)$

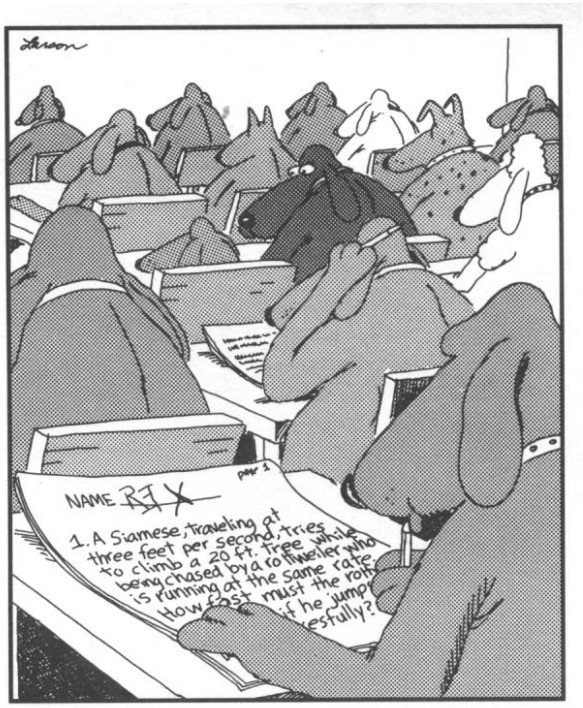
Use the functions listed to find each.

$h(x)=x-5$, $g(x)=x^2-3$, $f(x)=2x-1$

9. $f(g(h(7)))$
10. $f(g(a))$
11. $\dfrac{g(x+h)-g(x)}{h}$

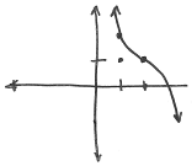
Graph 1.5 periods of each.

12. $y=2\csc\left(2x-\dfrac{\pi}{2}\right)-1$
13. $y=-\tan(2x)+1$
14. $y=-\sin\left(\dfrac{\pi x}{2}\right)$
15. $y=-\cot(2x-\pi)+1$
16. $y=-\sec 3x$
17. $y=2\tan\left(2x+\dfrac{\pi}{2}\right)$
18. $y=-\sec\left(2x-\dfrac{\pi}{2}\right)+1$
19. $y=-\cot\left(3x-\dfrac{\pi}{2}\right)-1$
20. $y=-\csc 2x-1$
21. $y=-2\cos(4x+\pi)$

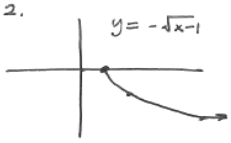


Before their admission to any canine university, dogs must first do well on the CATs.

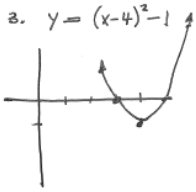
1. $y = -(x-2)^3 + 1$



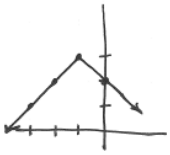
2. $y = -\sqrt{x-1}$



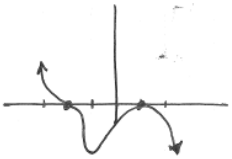
3. $y = (x-4)^2 - 1$



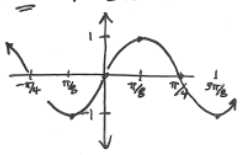
4. $Y = -|x+1| + 3$



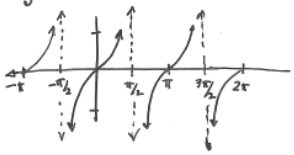
5. $Y = -(x-1)^2(x+2)^3$



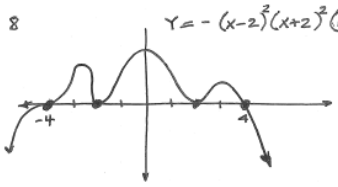
6. $Y = \sin 4x$



7. $y = \tan x$



8 $Y = -(x-2)^2(x+2)^2(x+4)^2(x-4)$

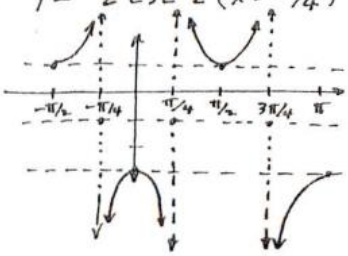


9. 1

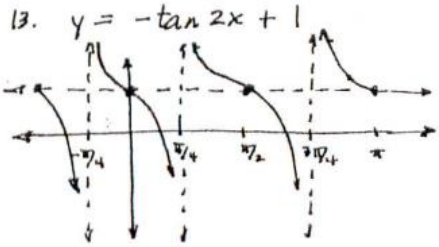
10 $2a^2 - 7$

11 $2x + h$

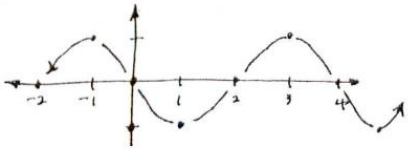
12. $y = 2\csc 2(x - \pi/4) - 1$



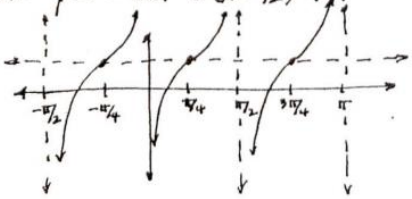
13. $y = -\tan 2x + 1$



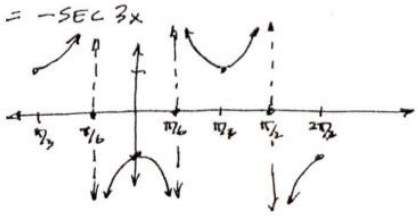
14. $y = -\sin \frac{\pi x}{2}$



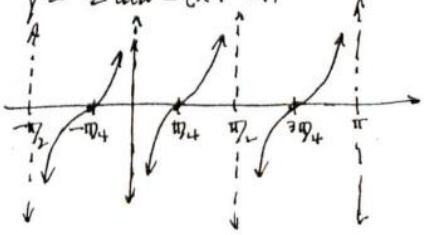
15. $y = -\cot 2(x - \pi/2) + 1$



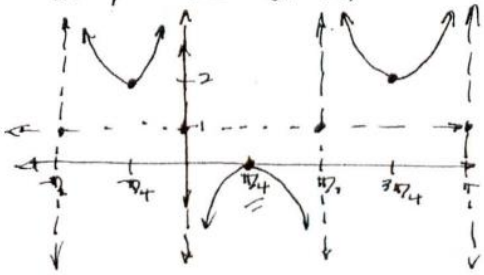
16. $y = -\sec 3x$

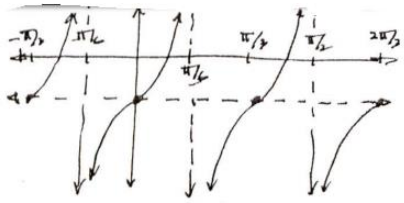


17. $y = 2\tan 2(x + \pi/4)$

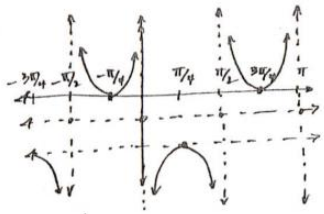
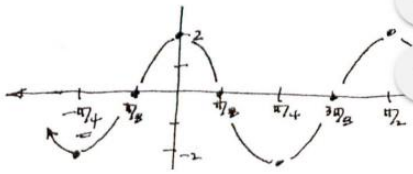


18. $y = -\sec 2(x - \pi/4) + 1$





20. $y = -\csc 2x - 1$



21. $y = -2\cos 4(x + \pi/4)$