Mrs. Brown's T-Shirt Project

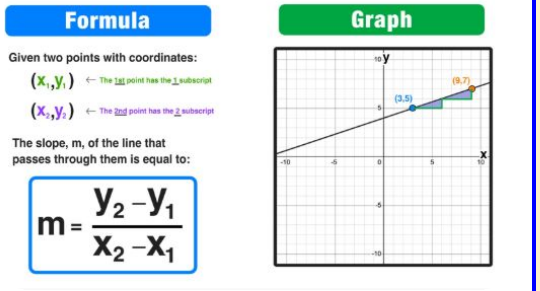
Student's will make a design on graph paper . They will then write equations using the coordinate points and functions they have learned to draw their design.
(Lines, Parabolas, and Circles)

Students will graph the equations into Desmos to create their design using equations.
Mrs. Brown prints the designs for students to color then sublimate onto t-shirts.

Mrs. Brown's Graphing T-Shirt Project

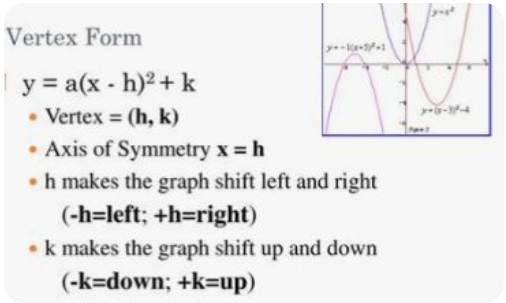
Linear Functions

Using slope and slope intercept formula to graph lines.



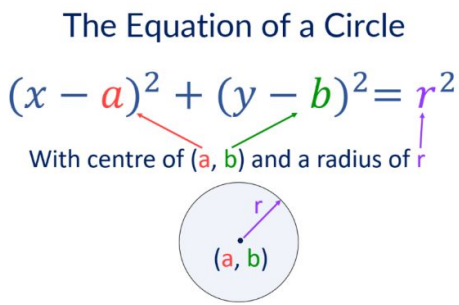
Quadratic Functions

Using vertex form to graph parabolas which gives more of a translation foundation for Algebra 2.



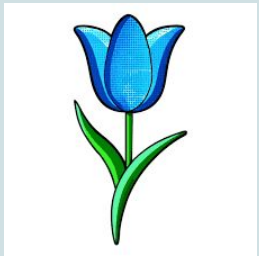
Circles Formula

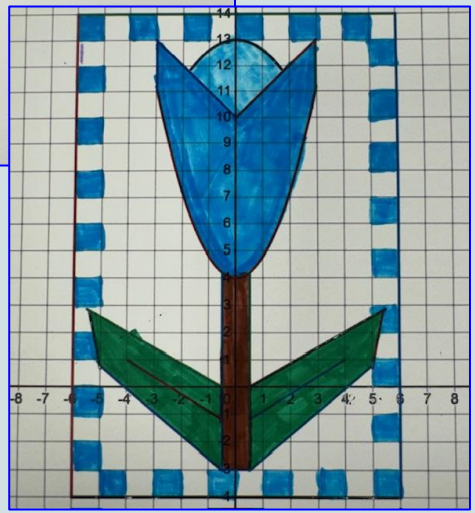
Front loading circles equations for Geometry.



Shalley's T-Shirt Design

1. $y = .8(x-0)^2 + 4 \{-3 < x < 3\}$
2. $x = -2.97 \{11 < y < 13\}$
3. $x = 2.97 \{11 < y < 13\}$
4. $y = -x + 10 \{-3 < x < 0\}$
5. $y = -.4(x-0)^2 + 13 \{-1.7 < x < 1.$
6. $y = x + 10 \{0 < x < 3\}$
7. $x = -.5 \{-3 < y < 4.2\}$
8. $x = .5 \{-3 < y < 4.2\}$
9. $y = -3 \{-.5 < x < .5\}$
10. $y = .57x - .28 \{.5 < x < 5.5\}$
11. $y = 1.42x - 3.68 \{.5 < x < 4\}$
12. $y = .85x - 3.46 \{.5 < x < 5\}$
13. $y = 5.12x - 24.9 \{5 < x < 5.4\}$
14. $y = .625x - 1.5 \{.5 < x < 4\}$
15. $y = -.57x - .28 \{-5.5 < x < -.5\}$
16. $y = -.85x - 3.46 \{-5 < x < -.5\}$
17. $y = -5.12x - 24.9 \{-5.4 < x < -5\}$
18. $y = -.625x - 1.5 \{-4 < x < -.5\}$
19. $y = 14 \{-6 < x < 6\}$
20. $y = -4 \{-6 < x < 6\}$
21. $x = -6 \{-4 < y < 14\}$
22. $x = 6 \{-4 < y < 14\}$

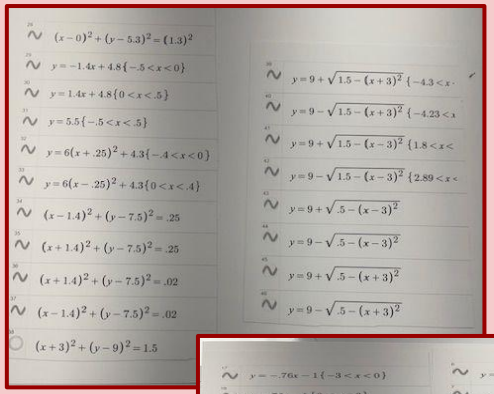




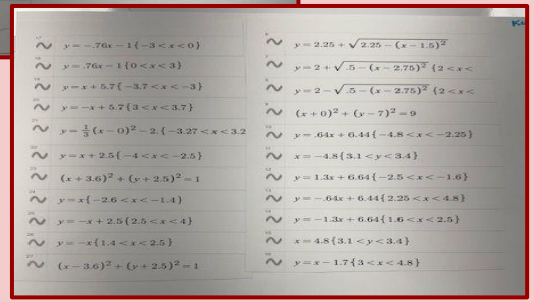


Kulimba's Teddy Bear Graph





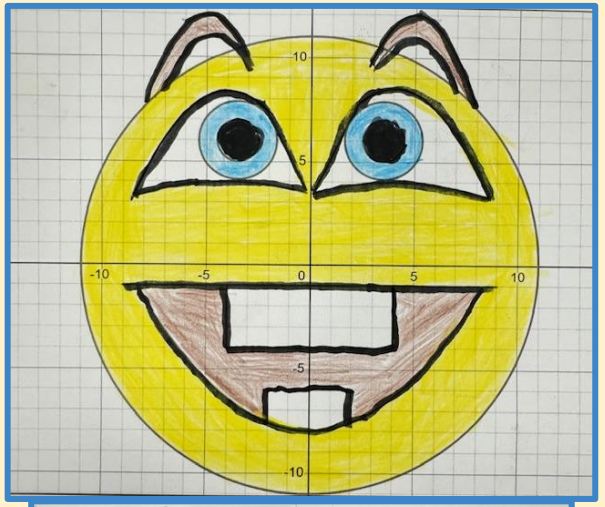


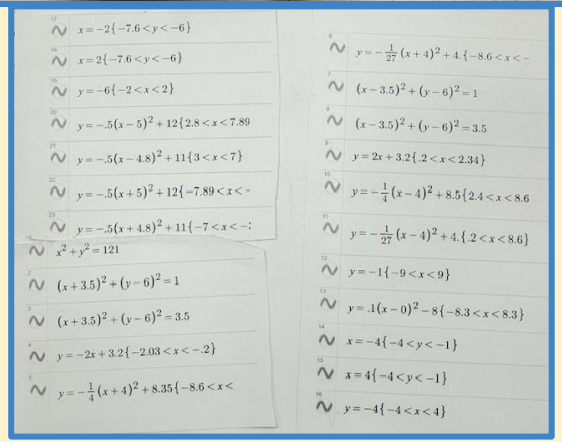




Arwin's Smiley Graph



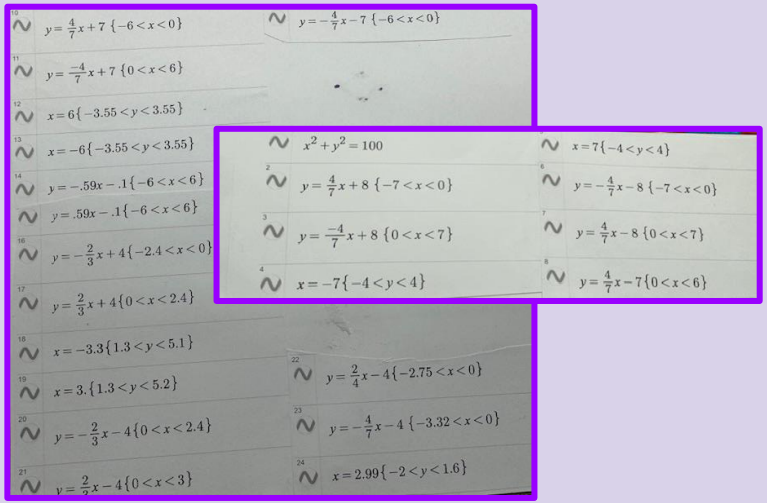


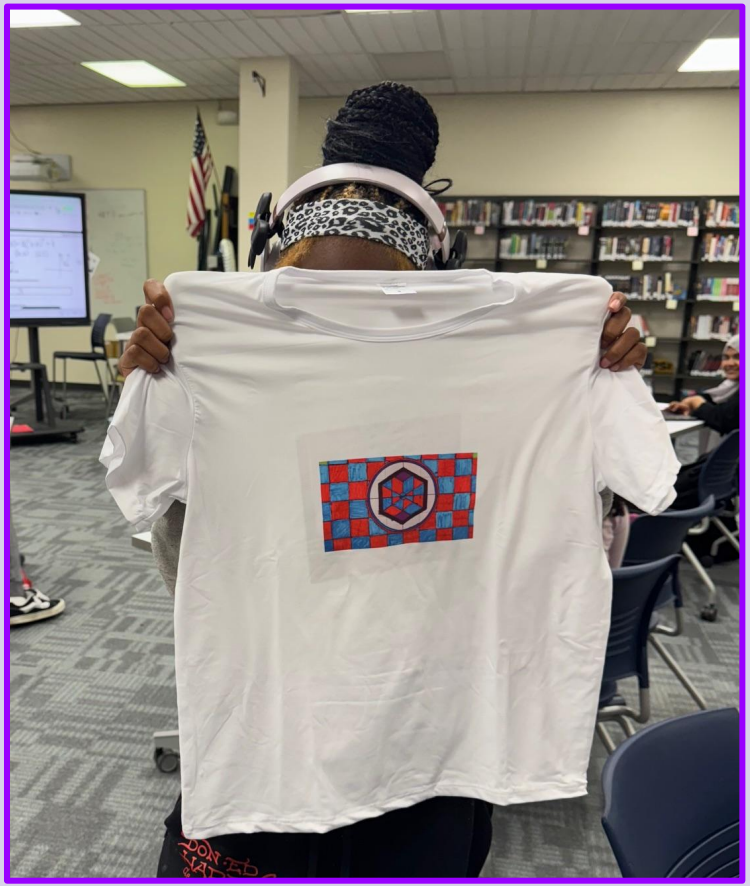




E’mariaire’s Graph



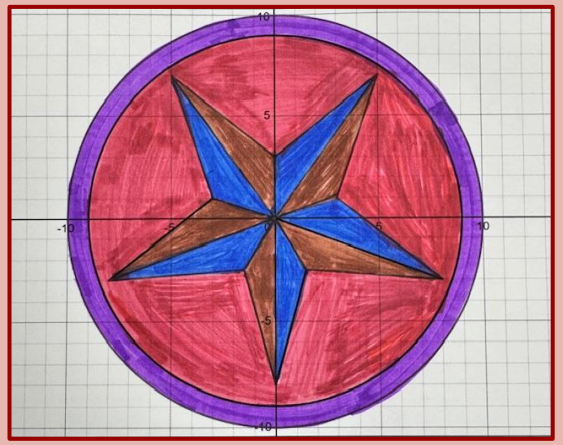






Baby's Graph



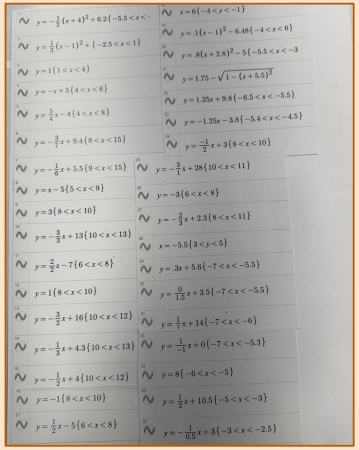


1. $y=-3x-8\{-5<x<-3\}$
2. $y=-\frac{4}{5}x+3\{-5<x<0\}$
3. $y=\frac{4}{5}x+3\{0<x<5\}$
4. $y=3x-8\{3<x<5\}$
5. $y=\frac{4}{5}x+3.4\{-8<x<-3\}$
6. $y=-\frac{4}{5}x+3.4\{3<x<8\}$
7. $y=\frac{0.5}{6.5}x-2.39\{-8<x<-1.5\}$
8. $y=-\frac{0.5}{6.5}x-2.39\{1.5<x<8\}$
9. $y=-\frac{5.5}{1.5}x-8\{-1.5<x<0\}$
10. $y=\frac{5.5}{1.5}x-8\{0<x<1.5\}$
11. $y=\frac{3}{8}x+0\{-8<x<3\}$
12. $y=-\frac{7}{5}x+0\{-5<x<0\}$
13. $y=\frac{2.5}{-1.5}x+0\{0<x<1.5\}$
14. $y=-\frac{1}{3}x+0\{-3<x<0\}$
15. $y=\frac{3}{-8}x+0\{0<x<8\}$
16. $y=\frac{2.5}{1.5}x+0\{-1.5<x<0\}$
17. $y=\frac{7}{5}x+0\{0<x<5\}$
18. $x^2+y^2=100$
19. $y=-11x+3\{0<x<0\}$
20. $x^2+y^2=81$

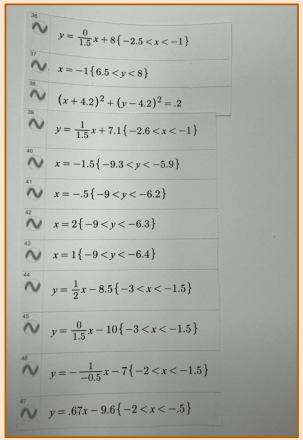


Kelly's Chicken



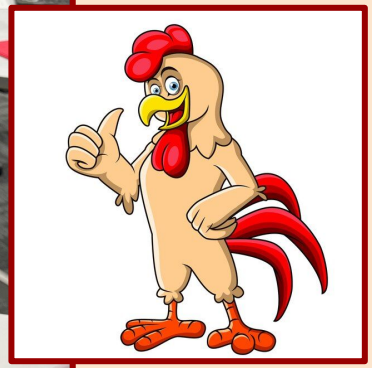


$y=-\frac{1}{2}(x+4)^2+6.2\{-5.5<x<-$
$y=\frac{1}{3}(x-1)^2+\{-2.5<x<1\}$
$y=1\{1<x<4\}$
$y=-x+5\{4<x<6\}$
$y=\frac{3}{4}x-4\{4<x<8\}$
$y=-\frac{3}{2}x+9.4\{8<x<15\}$
$y=-\frac{1}{6}x+5.5\{9<x<15\}$
$y=x-5\{5<x<9\}$
$y=3\{8<x<10\}$
$y=-\frac{3}{8}x+13\{10<x<13\}$
$y=\frac{2}{2}x-7\{6<x<8\}$
$y=1\{8<x<10\}$
$y=-\frac{3}{2}x+16\{10<x<12\}$
$y=-\frac{1}{8}x+4.3\{10<x<13\}$
$y=-\frac{1}{2}x+4\{10<x<12\}$
$y=-1\{8<x<10\}$
$y=\frac{1}{2}x-5\{6<x<8\}$
$x=6\{-4<y<-1\}$
$y=.1(x-1)^2-6.48\{-4<x<6\}$
$y=.8(x+2.8)^2-5\{-5.5<x<-3$
$y=1.75-\sqrt{1-(x+5.5)^2}$
$y=1.25x+9.8\{-6.5<x<-5.5\}$
$y=-1.25x-3.8\{-5.4<x<-4.5\}$
$y=\frac{-1}{2}x+3\{8<x<10\}$
$y=-\frac{3}{7}x+28\{10<x<11\}$
$y=-3\{6<x<8\}$
$y=-\frac{3}{3}x+2.3\{8<x<11\}$
$x=-5.5\{3<y<5\}$
$y=.3x+5.6\{-7<x<-5.5\}$
$y=\frac{0}{1.5}x+3.5\{-7<x<-5.5\}$
$y=\frac{1}{7}x+14\{-7<x<-6\}$
$y=\frac{1}{-1}x+0\{-7<x<-5.3\}$
$y=8\{-6<x<-5\}$
$y=\frac{1}{2}x+10.5\{-5<x<-3\}$
$y=-\frac{1}{0.5}x+3\{-3<x<-2.5\}$

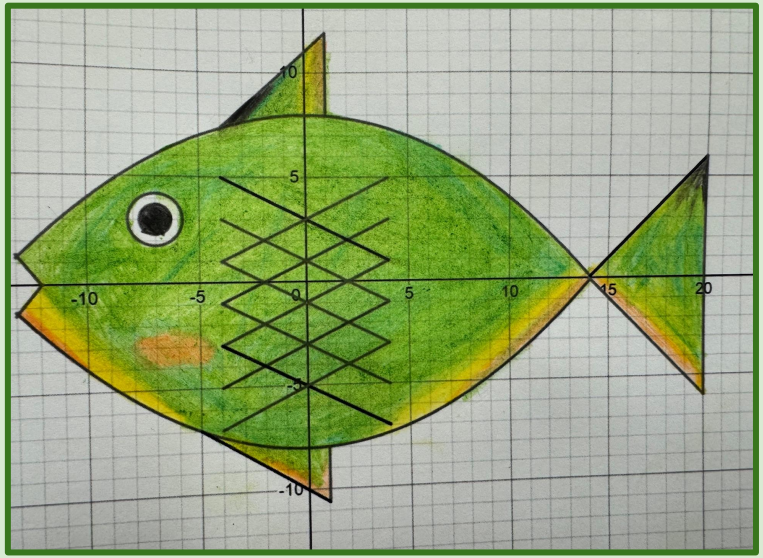


$y=\frac{0}{1.5}x+8\{-2.5<x<-1\}$
$x=-1\{6.5<y<8\}$
$(x+4.2)^2+(y-4.2)^2=.2$
$y=\frac{1}{1.5}x+7.1\{-2.6<x<-1\}$
$x=-1.5\{-9.3<y<-5.9\}$
$x=-.5\{-9<y<-6.2\}$
$x=2\{-9<y<-6.3\}$
$x=1\{-9<y<-6.4\}$
$y=\frac{1}{2}x-8.5\{-3<x<-1.5\}$
$y=\frac{0}{1.5}x-10\{-3<x<-1.5\}$
$y=-\frac{1}{-0.5}x-7\{-2<x<-1.5\}$
$y=.67x-9.6\{-2<x<-.5\}$





Paul's Fish Graph

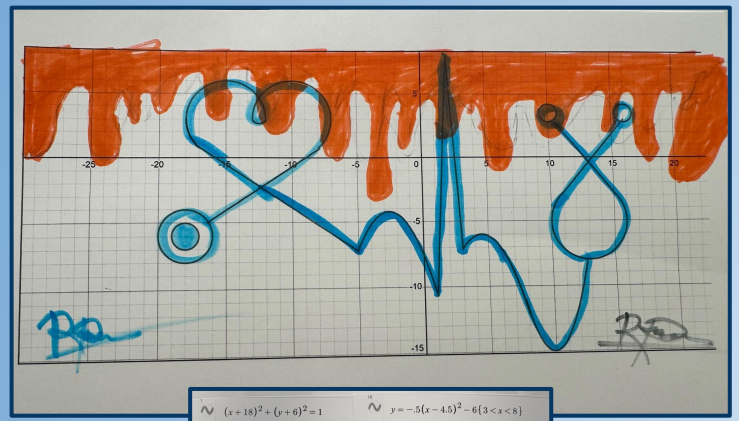


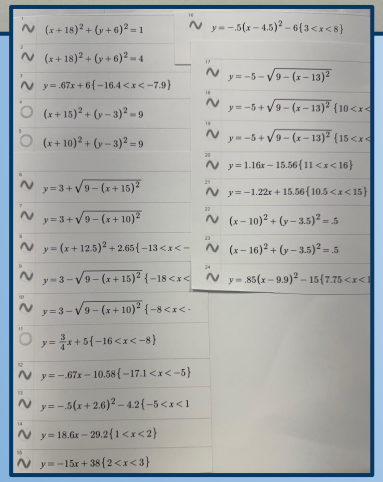
1. $y=-.04(x-0)^2+8\{-13<x<14$
2. $y=.04(x-0)^2-8\{-13<x<14\}$
3. $y=x-14\{14<x<20\}$
4. $y=-x+14\{14<x<20\}$
5. $x=20\{-6<y<6\}$
6. $(x+7)^2+(y-3)^2=1.5$
7. $y=-\frac{1}{2}x-1\{-4<x<4\}$
8. $y=\frac{1}{2}x-1\{-4<x<4\}$
9. $y=-\frac{1}{2}x-3\{-4<x<4\}$
10. $y=\frac{1}{2}x-3\{-4<x<4\}$
11. $y=-\frac{1}{2}x-5\{-4<x<4\}$
12. $y=-\frac{1}{2}x-5\{-4<x<4\}$
13. $y=\frac{1}{2}x+1\{-4<x<4\}$
14. $y=-\frac{1}{2}x+3\{-4<x<4\}$
15. $y=\frac{1}{2}x+3\{-4<x<4\}$
16. $y=-\frac{1}{2}x+1\{-4<x<4\}$
17. $y=\frac{1}{2}x-5\{-4<x<4\}$
18. $y=0.9x+11\{-4<x<1\}$
19. $x=1\{8<y<11.8\}$
20. $y=-1.3x-15.5\{-13<x<-12\}$
21. $y=1.3x+15.5\{-13<x<-11.9\}$
22. $(x+7)^2+(y-3)^2=.5$
23. $x=1\{-10.6<y<-8\}$
24. $y=-\frac{3}{5}x-10\{-5<x<1\}$



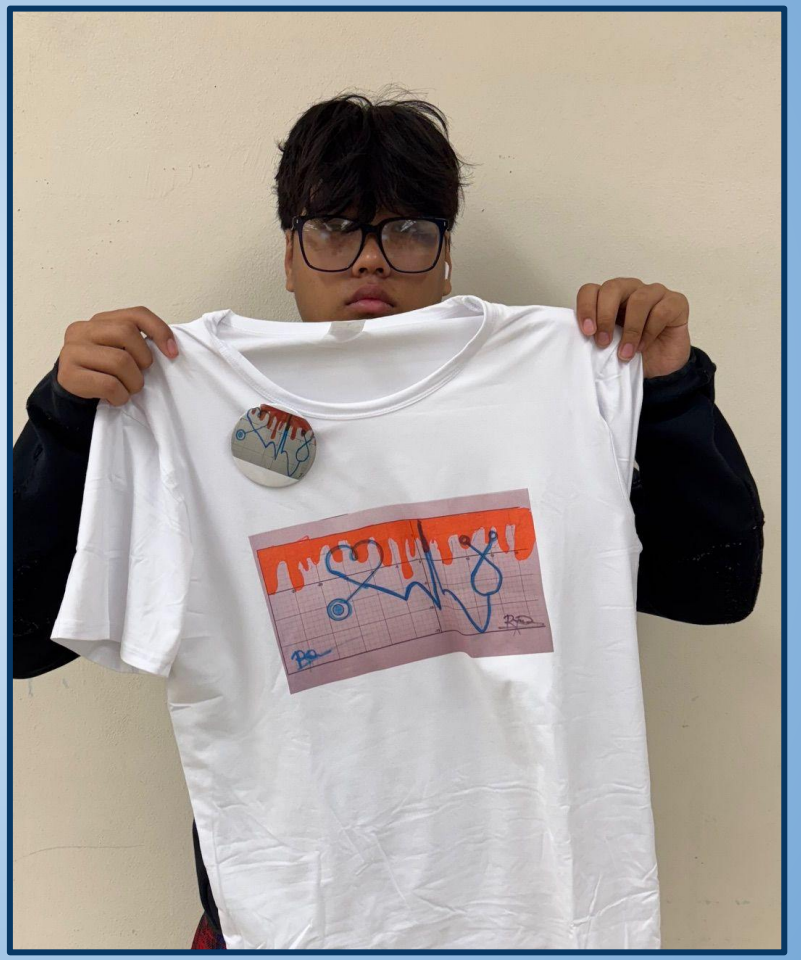


Rosan's Stethoscope Heartbeat

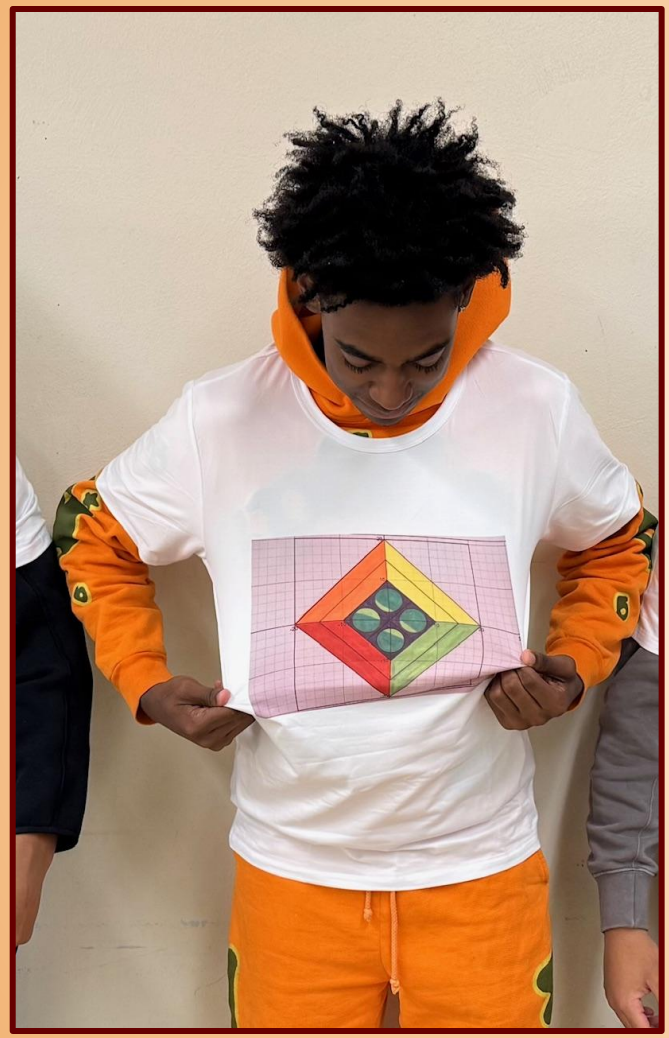


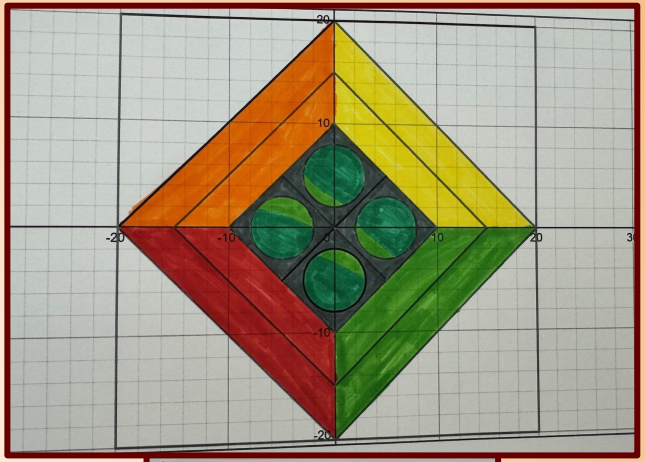


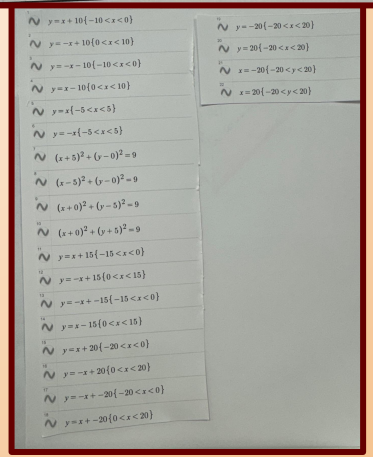




Jakar's Design

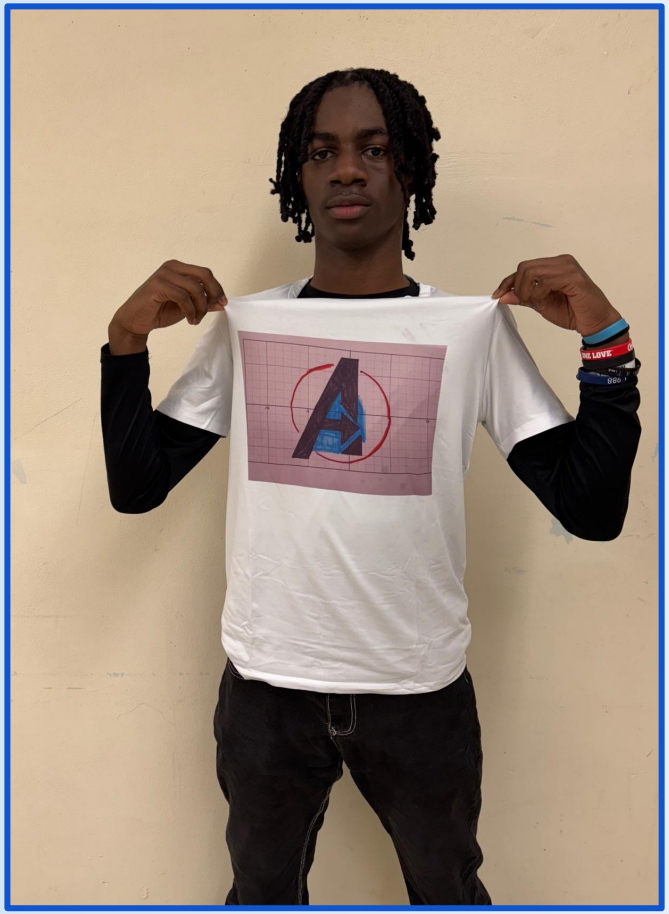


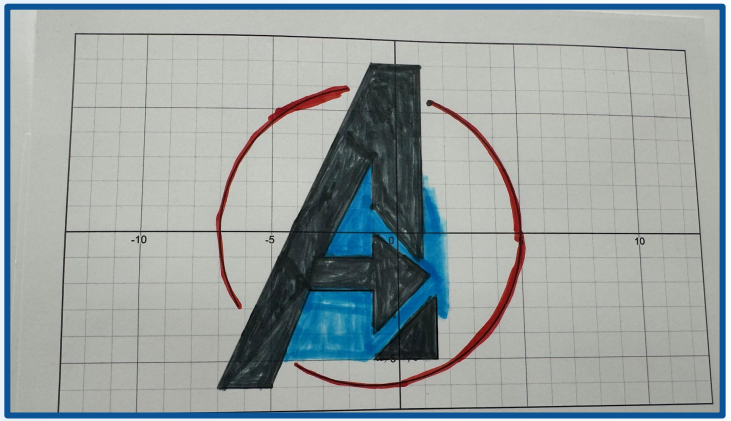




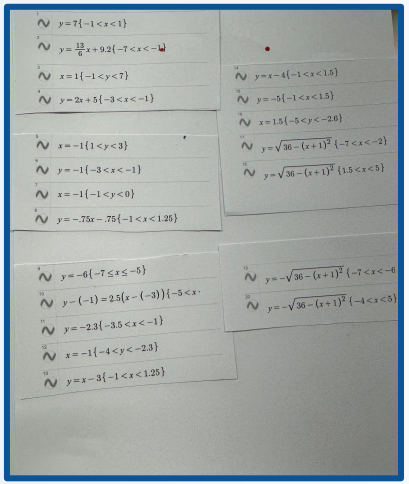


Zy’on’s Avenger



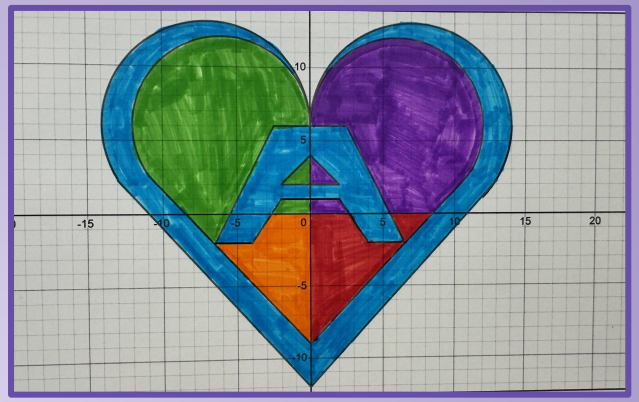






Andrew's Heart

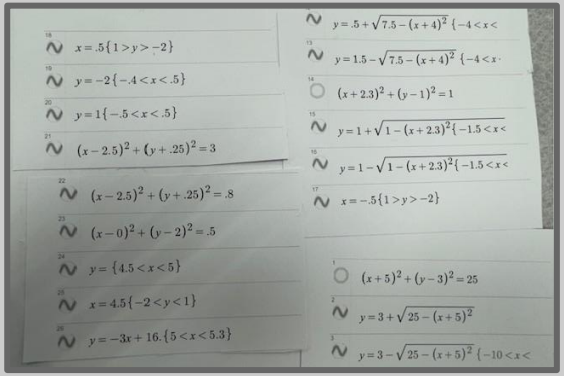




1. $y = 6 + \sqrt{36 - (x-6)^2}$
2. $y = 6 + \sqrt{36 - (x+6)^2}$
3. $y = 6 - \sqrt{36 - (x-6)^2}\ \{11 < x < 1$
4. $y = 6 - \sqrt{36 - (x+6)^2}\ \{-12 < x <$
5. $y = -1.06x - 9\{-11 < x < 0\}$
6. $y = 1.06x - 9\{0 < x < 11\}$
7. $y = 6 + \sqrt{49 - (x-7)^2}$
8. $y = 6 + \sqrt{49 - (x+7)^2}$
9. $y = 6 - \sqrt{49 - (x+7)^2}\ \{-14 < x <$
10. $y = 6 - \sqrt{49 - (x-7)^2}\ \{12 < x < -$
11. $y = 6 - \sqrt{49 - (x-7)^2}\ \{12 < x < 1$
12. $y = -1.1x - 12\{-13 < x < 0\}$
13. $y = 1.1x - 12\{0 < x < 13\}$
14. $y = 2x + 11\{-6.5 < x < -2.5\}$
15. $y = -2x + 11\{2.5 < x < 6.5\}$
16. $y = 6\{-2.5 < x < 2.5\}$
17. $y = -2\{-6.5 < x < -4\}$
18. $y = -2\{4 < x < 6.5\}$
19. $y = \frac{3}{2}x + 4\{-4 < x < -2\}$
20. $y = -\frac{3}{2}x + 4\{2 < x < 4\}$
21. $y = 1\{-2 < x < 2\}$
22. $y = 2\{-2 < x < 2\}$
23. $y = x + 4\{-2 < x < 0\}$
24. $y = -x + 4\{0 < x < 2\}$

Dion's Heart

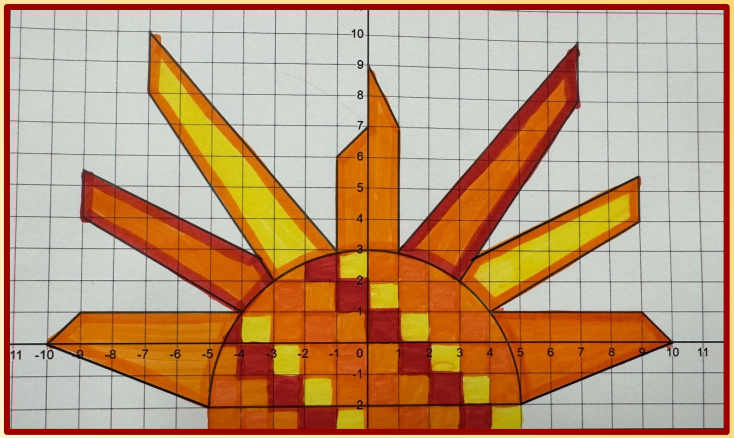

DION


$x = .5\{1 > y > -2\}$
$y = -2\{-.4 < x < .5\}$
$y = 1\{-.5 < x < .5\}$
$(x-2.5)^2 + (y+.25)^2 = 3$
$(x-2.5)^2 + (y+.25)^2 = .8$
$(x-0)^2 + (y-2)^2 = .5$
$y = \{4.5 < x < 5\}$
$x = 4.5\{-2 < y < 1\}$
$y = -3x + 16.\{5 < x < 5.3\}$
$y = .5 + \sqrt{7.5 - (x+4)^2}\ \{-4 < x <$
$y = 1.5 - \sqrt{7.5 - (x+4)^2}\ \{-4 < x$
$(x+2.3)^2 + (y-1)^2 = 1$
$y = 1 + \sqrt{1 - (x+2.3)^2}\{-1.5 < x <$
$y = 1 - \sqrt{1 - (x+2.3)^2}\{-1.5 < x <$
$x = -.5\{1 > y > -2\}$
$(x+5)^2 + (y-3)^2 = 25$
$y = 3 + \sqrt{25 - (x+5)^2}$
$y = 3 - \sqrt{25 - (x+5)^2}\ \{-10 < x <$


DION

Madison’s Sunshine

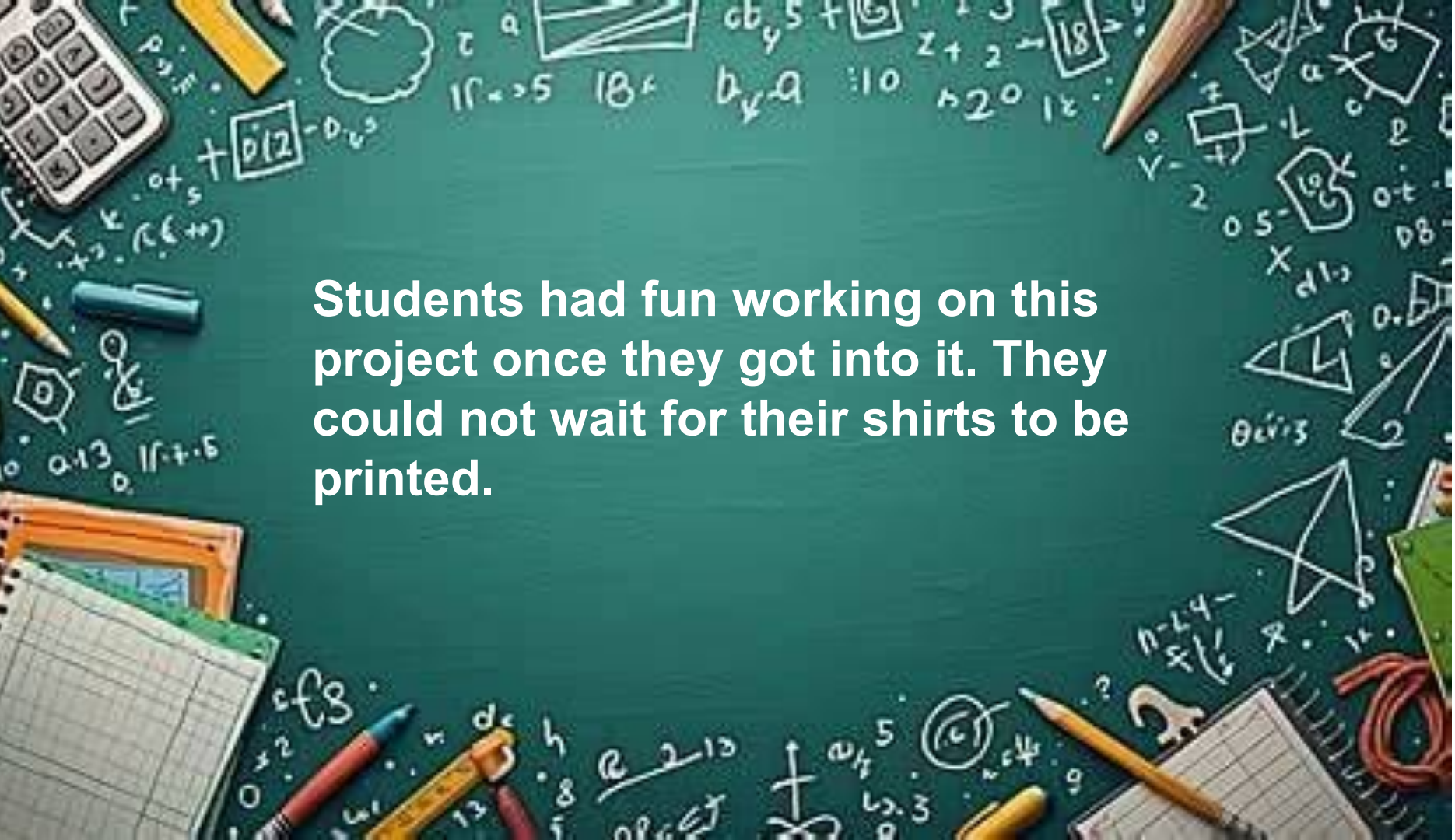




$y = -2 + \sqrt{25 - (x-0)^2}$

7. $y = -2\{-5 < x < 5\}$
8. $y = x + 7\{-1 < x < 0\}$
9. $y = -2x + 9\{0 < x < 1\}$
10. $x = 0\{7 < y < 9\}$
11. $x = -1\{2.89 < y < 5.89\}$
12. $x = 1\{2.89 < y < 6.89\}$
13. $y = \frac{7}{6}x + 1.8\{1 < x < 7\}$
14. $x = 7\{8 < y < 10\}$
15. $y = \frac{6}{4}x - 2.5\{3 < x < 7\}$
16. $y = \frac{1}{2}x + 1\{3.4 < x < 9\}$
17. $x = 9\{4 < y < 5.5\}$
18. $y = \frac{3}{5}x - 1.4\{4 < x < 9\}$
19. $y = 1\{4 < x < 9\}$
20. $y = -x + 10\{9 < x < 10\}$
21. $y = .4x - 4\{5 < x < 10\}$
22. $y = \frac{-7}{6}x + 1.8\{-7 < x < -1\}$
23. $x = -7\{8 < y < 10\}$
24. $y = \frac{-6}{4}x - 2.5\{-7 < x < -3\}$
25. $y = -\frac{1}{2}x + 1\{-9 < x < -3.4\}$
26. $x = -9\{4 < y < 5.5\}$
27. $y = -\frac{3}{5}x - 1.4\{-9 < x < -4\}$
28. $y = 1\{-9 < x < -4\}$
29. $y = +x + 10\{-10 < x < -9\}$
30. $y = -.4x - 4\{-10 < x < -5\}$




Students had fun working on this project once they got into it. They could not wait for their shirts to be printed.