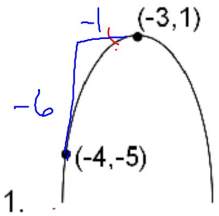
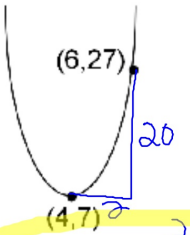


1.

$y = -6(x+3)^2 + 1$

$-5 = a(-4+3)^2 + 1$ $\quad -5 = a + 1$

$a \cdot 1 + 1$ $\quad -6 = a$



2.

$y = 5(x-4)^2 + 7$

$27 = 4a + 7$

3. State the equation for the line of symmetry, the coordinates of the vertex, and the y-intercept for this parabola:

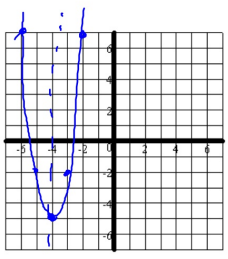
$y = -3(x+4)^2 - 10$

LOS: $x = -4$

Vertex: $(-4, -10)$

y-int: $-3(0+4)^2 - 10 = -58$

4. Graph this parabola with five points. $y = 3(x+4)^2 - 5$



Vertex $(-4, -5)$

y-int = 43

X	Y
-5	
-6	

$4 \times 3 = 12$

2