1. Two groups of teenagers and adults went to a basketball game last week. The first group paid \$88 for 4 teens and 2 adults. The second group paid \$164 for 7 teens and 4 adults. What was the cost for a teen's ticket and for an adult ticket?

$$X = cost$$
 for teen ticket \$12
 $y = cost$ for adult ticket \$20
 $-7(4x+2y=88)$ $4x+2(20)=88$
 $4(7x+4y=164)$ $4x+40=88$
 $4(7x+4y=164)$ $4x=48$
 $-28x-14y=-616$ $x=12$
 $+28x+16y=656$
 $3y=40$
 $3y=820$

2. Write the equation in slope-intercept form:

3. What is the equation of the line that passes through the points (-3, 6) and (4, 27).

$$0 = \frac{27-6}{4+3} = \frac{21}{7} = 3$$

$$0 = \frac{27-6}{4+3} = \frac{27-6}{1+3} = \frac{21}{7} = 3$$

$$0 = \frac{27-6}{4+3} = \frac{21-3}{1+3} = \frac{21-3$$