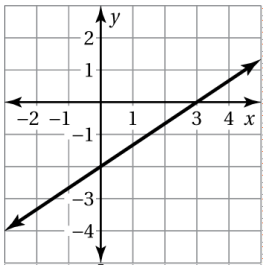
Name: _____ Period: _____

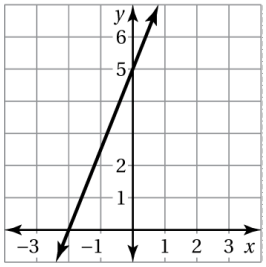
4.5 Graphing Linear Equations in Standard Form

Use the graph to determine the x- and y-intercepts.

1) 

x-intercept

y-intercept

2) 

x-intercept

y-intercept

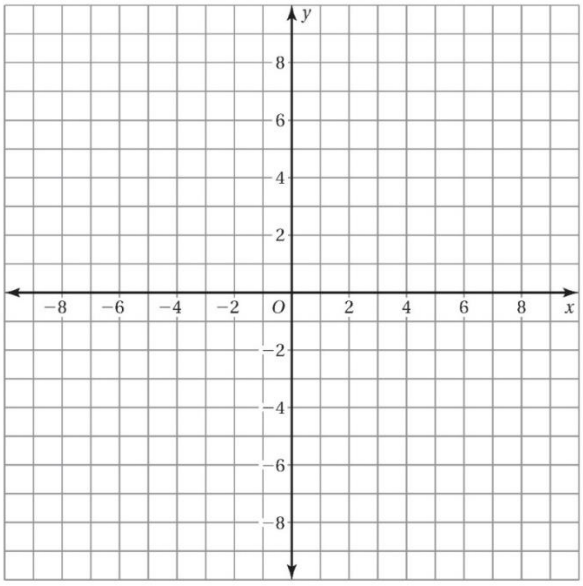
Graph the linear equations using intercepts. Make sure you label the number of the problem next to the graph of the linear equation.

3) $4x + y = 8$

x-intercept | y-intercept

4) $3x - 2y = 12$

x-intercept | y-intercept

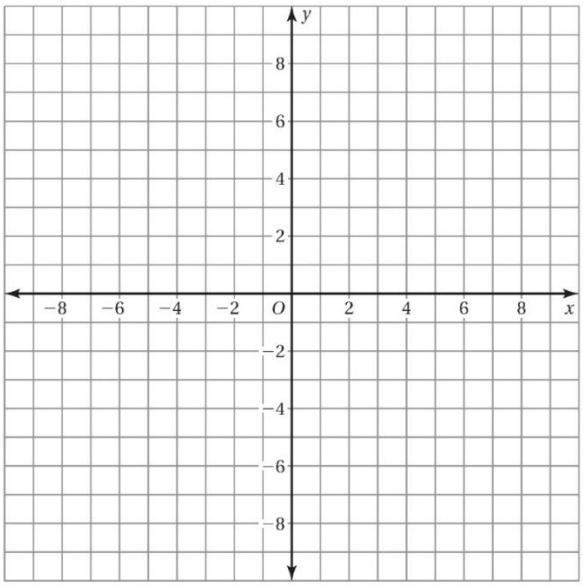


5) $2x - 3y = 6$

x-intercept | y-intercept

6) $5x - 3y = 15$

x-intercept | y-intercept

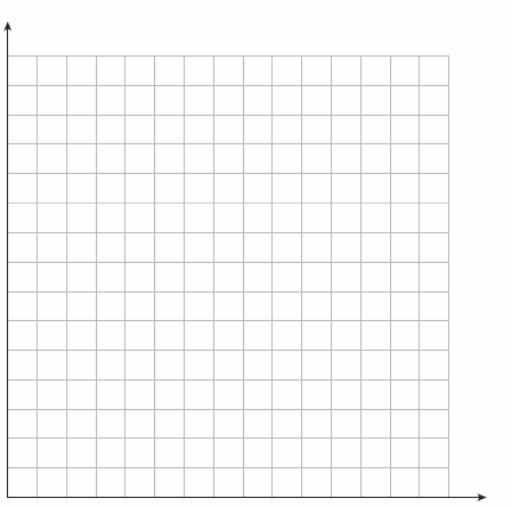


7) You have two jobs. You earn \$8 for each hour x that you work as a restaurant host and \$6 for each hour y that you work as a hair washer. Your earnings for the pay period are \$144.

a) Write an equation in standard form that models your earnings.

b) Find the x- and y-intercepts.

c) Graph the equation.



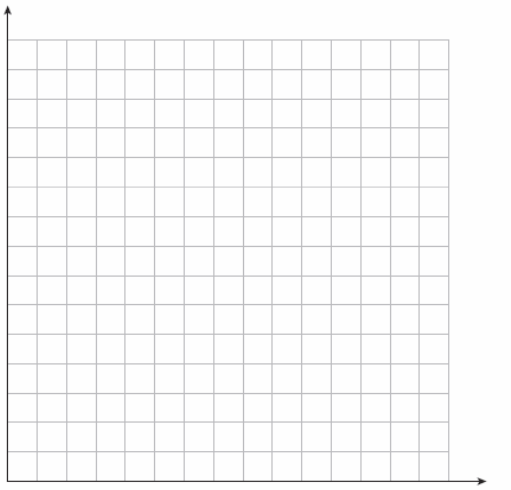
d) You worked 10 hours as a hair washer. How many hours did you work as a host?

8) Your family is on a ski vacation. Lift tickets for the family cost \$80 per day. Snowboard rentals cost \$40 per day. You purchase lift tickets for x days and snowboard rentals for y days and spend \$480.

a) Write an equation in standard form that models your earnings.

b) Find the x- and y-intercepts.

c) Graph the equation.



d) You rent snowboards for 2 days. How many days did you purchase lift tickets?