

Name: \_\_\_\_\_

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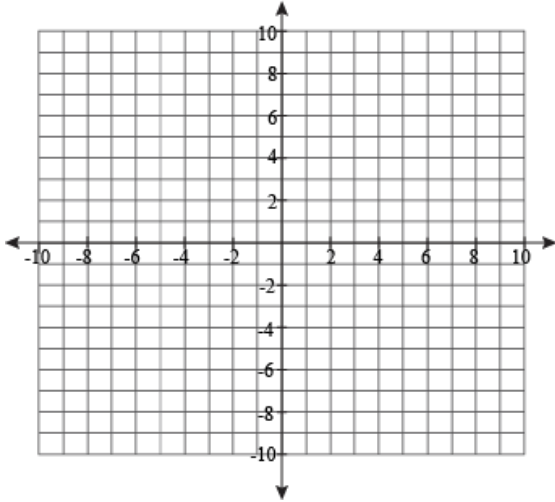
## Point-Slope & Standard Form Review Worksheet

### Linear Functions

#### Graphing

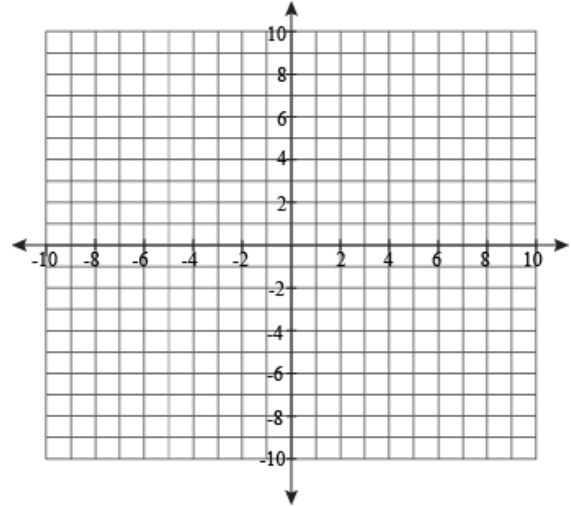
Using Point-Slope Form:

1.  $y - 4 = -\frac{3}{5}(x + 2)$



From Standard Form (use x & y intercepts)

2.  $2x + 3y = 18$



#### In Context

Point Slope:

3. An Ewa Makai student buys lunch for \$2.50 every day using money from their school meal account. She doesn't know how much money she started with, but she got a notice on the 24th day that she only had \$8.00 left in her account.
- Write an equation in Point-Slope form that determines the amount of money left on the student's account after  $x$  days.
  - How much money did the Ewa Makai student have initially? ( $x=0$ )

Standard Form:

4. An Ewa Makai student spends a total of \$240 on lunch and breakfast during their 8th grade year. Lunch costs \$2.50 each and breakfast costs \$1.10 each.
- Write an equation in Standard form that shows the total cost for  $x$  amount of lunches and  $y$  amount of breakfasts bought.
  - How many breakfasts did the student buy if they bought 85 lunches?

## Converting to Standard Form

Convert the following to Standard Form

5.  $y = \frac{4}{5}x - \frac{3}{10}$

6.  $.45x = .3 - .2y$

### **Challenge:**

Convert the following Point-Slope equation to Standard Form:

$$y - 4 = \frac{3}{4}(x + 6)$$