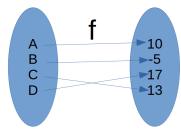
Test 1 Spring

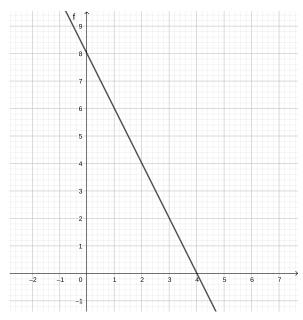
Please read and follow all instructions.

- 1. Sketch the graph of y = -2x + 6 including the x and y intercepts.
- 2. Solve for x: 3x + 2 = 23
- 3. Solve for x: 5x + 1 = 2x 17
- 4. Find the equation of the line with slope 3 through (2,5) in slope-intercept form.
- 5. Given two points (1,3) and (4,12):
 - (a) Find the slope of the line connecting them.
 - (b) Sketch the line.
 - (c) What is the y-intercept?
- 6. Given $f(x) = x^2 + 3x + 1$, find:
 - (a) f(2) = ?
 - (b) $3 \stackrel{f}{\longmapsto} ?$
 - (c) f(-1) = ?
- 7. For the function f given below answer the following questions:



- (a) f(A) = ?
- (b) $C \stackrel{f}{\longmapsto} ?$
- (c) f(13) = ?
- (d) f(D) = ?

- 8. Find the slope and intercept of the line 4x + 2y = 16.
- 9. Find the slope of a line perpendicular to the line y = 2x 8.
- 10. For the graph shown below find:
 - (a) The slope
 - (b) The x intercept
 - (c) the y intercept



11. (Extra Credit) Draw a Hitomezashi stitch pattern.