

Day 05 Homework

Graphing Absolute Value & Linear Functions

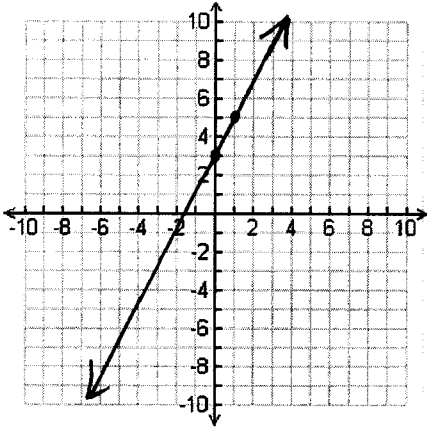
Do not use the calculator!

Name Master C
 Date Block

1-9: Given the three forms of a linear function, state the slope and a point BEFORE graphing each line.

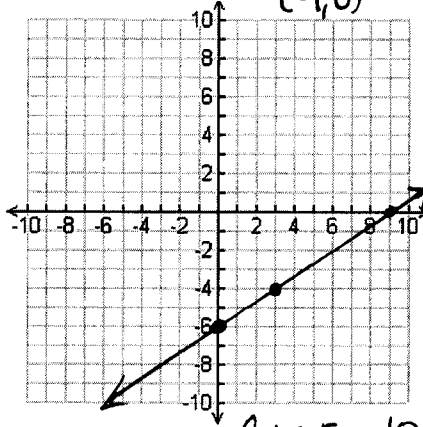
Slope-intercept:

1. $y = 2x + 3$ $m=2$
 $(0, 3)$



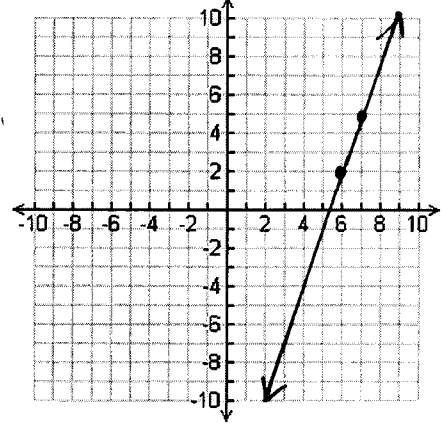
Standard: $-2y = 2x + 18$
 $y = \frac{2}{3}x - 6$

2. $2x - 3y = 18$ $(0, -6)$ $m = \frac{2}{3}$
 $(9, 0)$

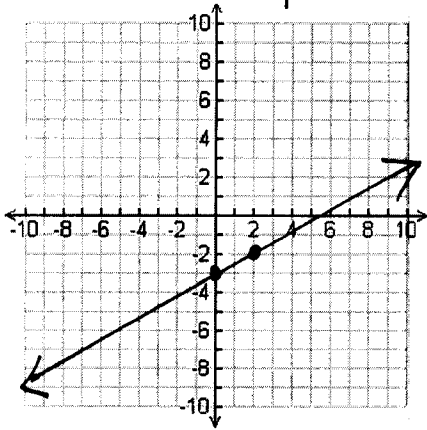


Point-Slope:

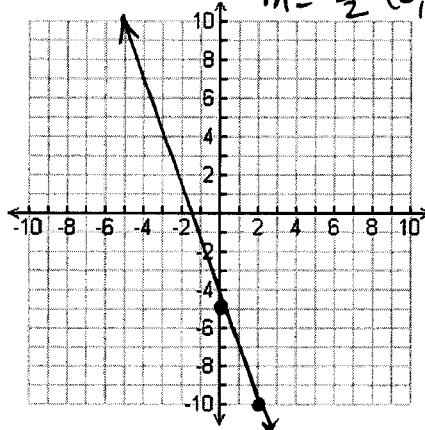
3. $y = 3(x - 6) + 2$ $m=3$
 $(6, 2)$



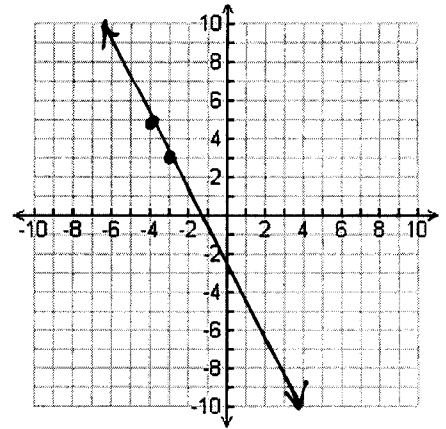
4. $y = \frac{1}{2}x - 3$ $m = \frac{1}{2}$
 $(0, -3)$



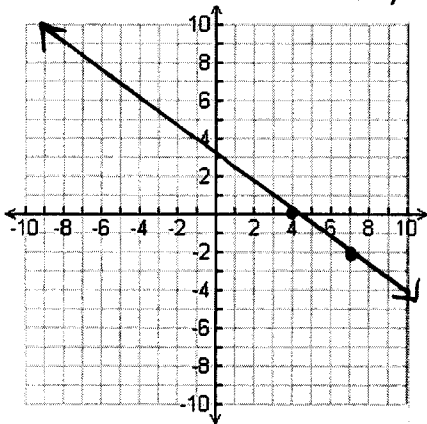
5. $5x + 2y = -10$ $2y = -5x - 10$
 $y = -\frac{5}{2}x - 5$ $m = -\frac{5}{2}$ $(0, -5)$



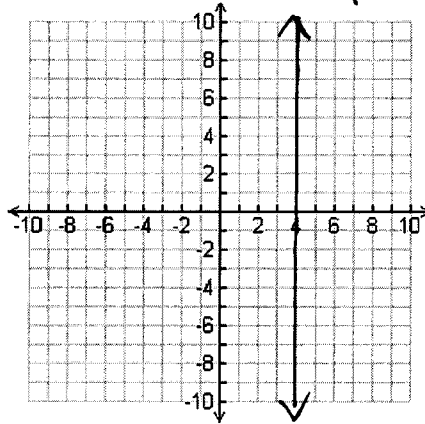
6. $y = -2(x + 4) + 5$ $m = -2$
 $(-4, 5)$



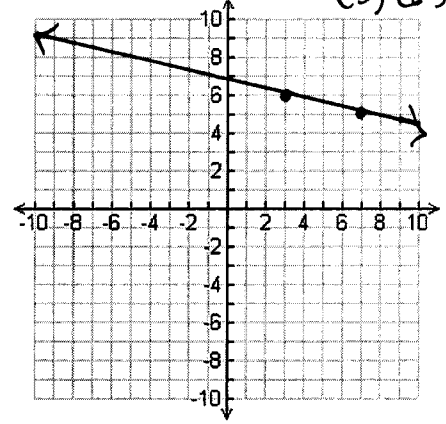
7. $y = -\frac{2}{3}(x - 4) + 6$ $m = -\frac{2}{3}$
 $(4, 6)$



8. $x = 4$ $m = 0$
 $(4, 0)$

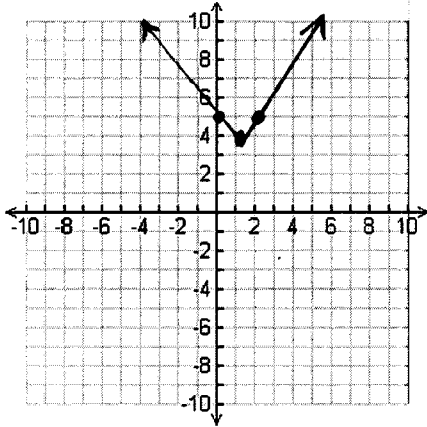


9. $y = -1/4(x - 3) + 6$ $m = -\frac{1}{4}$
 $(3, 6)$

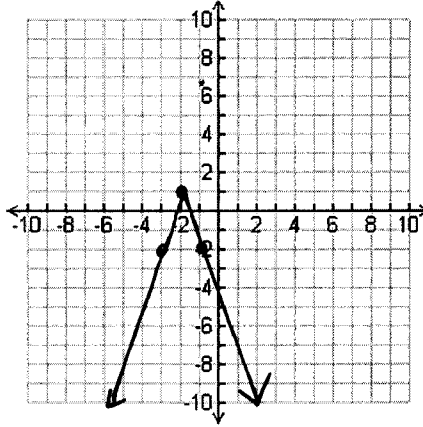


10-18: Graph each absolute value function with at least three points. DO NOT USE THE CALCULATOR!

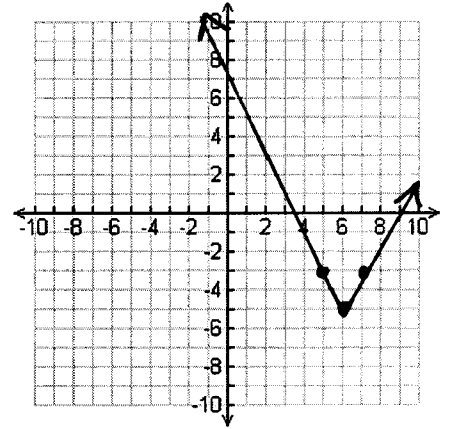
10. $y = |x - 1| + 4$ $V(1, 4)$



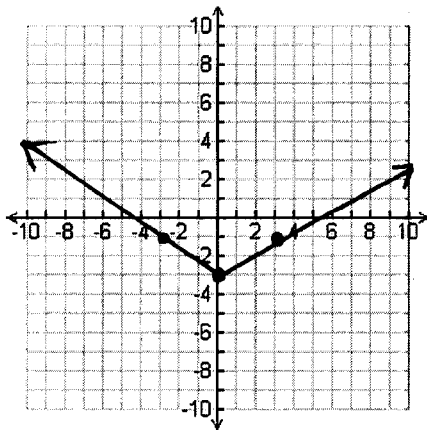
11. $y = -3|x + 2| + 1$ $V(-2, 1)$



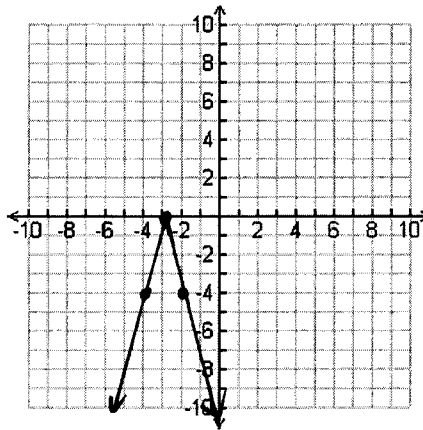
12. $y = 2|x - 6| - 5$ $V(6, -5)$



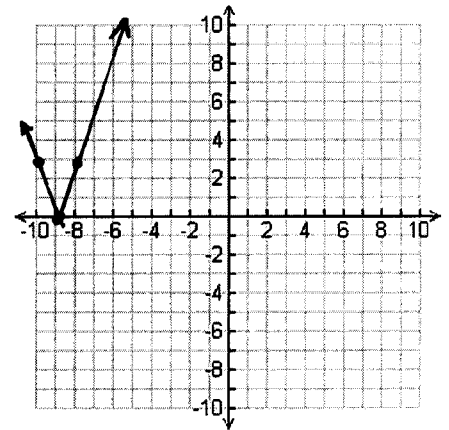
13. $y = \frac{2}{3}|x| - 3$ $V(0, -3)$



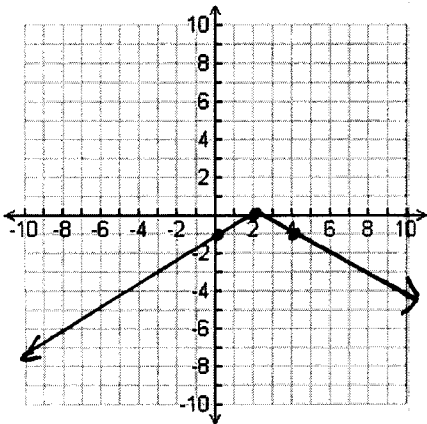
14. $y = -4|x + 3|$ $V(-3, 0)$



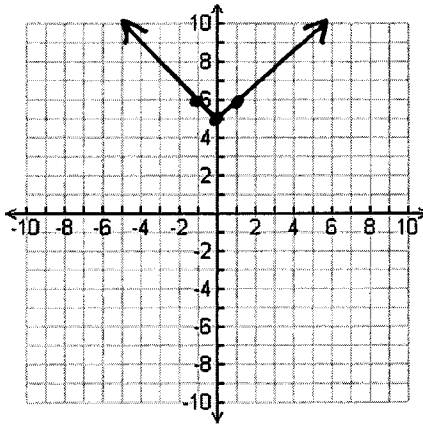
15. $y = 3|x + 9|$ $V(-9, 0)$



16. $y = \frac{-1}{2}|x - 2|$ $V(2, 0)$



17. $y = |x| + 5$ $V(0, 5)$



18. $y = \frac{4}{3}|x - 4| - 3$ $V(4, -3)$

