a) Complete the rows for amount of slope and direction of slope in words.
b) Give the rise and the run in the spaces provided.

| Graph \#: | 1 | 2 | 3 | 4 | 5 | 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Slope | $\frac{4}{5}: 0.8$ | $\frac{5}{2}$ | $-\frac{5}{3}$ | $-\frac{1}{3}$ | 4 | -3 |
| Direction Of Slope | UP | UD | Down | Down | $L_{T}$ | Jown |
| Amount Of Slope | STEED | STEED | Stéep | STRONG | STÉEP | Stễo |
| Run (aluays positive) | 5 | 2 | 3 | 3 | 1 | 1 |
| Rise (positive or negative) | 4 | 5 | -5 | -1 | 4 | -3 |

(2) On the 6 graphs below, plot lines which pass through the origin that have the given slopes.

Steps: i) Place your pencil at the requested starting point.
ii) Use a ruler draw the run first. Since this is always positive, it will always be drawn to the right from the starting point.
iii) Now draw the rise from the end of the run. ( $\mathbf{U p}$ if positive, down if negative.)
iv) Draw a line through the ends of the rise and run and extend the line to the edges of the grid.


For the remaining graphs notice that the requested start point for the run is no longer at the origin.

|  <br> rise <br> 7. slope $=\frac{2}{3}$; start at $(1,1)$ |  <br> 8. slope $=-\frac{11}{4}$; start at $(2,6)$ |  <br> 9. slope $=-\frac{1}{5}$; start at $(-5,5)$ |
| :---: | :---: | :---: |
|  $\text { 10. slope }=\frac{5}{4} ; \text { start at }(-4,0)$ |  $\text { 11. slope }=-6 ; \text { start at }(0,5)$ |  $\text { 12. slope }=5 ; \text { start at }(0,-3)$ |
|  $\text { 13. slope }=\frac{3}{5} \text {; start at }(-4,-7)$ |  $\text { 14. slope }=-\frac{1}{2} ; \text { start at }(-7,1)$ |  $\text { 15. slope }=\frac{5}{7} ; \text { start at }(-1,-3)$ |

## To Check Answers:

If drawn correctly, your line will also go through the point indicated below. (A near miss probably means that you just need to be more careful when lining up your ruler to draw the line-try it!)

1. $(-5,-4)$
2. $(-2,-5)$
3. $(-3,5)$
4. $(-6,2)$
5. $(2,8)$
6. $(-1,3)$
7. $(7,5)$
8. $(6,-5)$
9. $(5,3)$
10. $(-8,-5)$
11. $(2,-7)$
12. $(-1,-8)$
13. $(6,-1)$
14. $(1,-3)$
15. $(-8,-8)$
