Find the slope

$(2, 8)$ $(-3, 4)$

$\frac{\Delta y}{\Delta x} = \frac{4-8}{-3-2} = \frac{-4}{-5} = \frac{4}{5}$

$\frac{8-4}{2--3} = \frac{4}{5}$

$(11, -8)$ $(11, 2)$

$\frac{\Delta y}{\Delta x} = \frac{2--8}{11-11} = \frac{10}{0}$

Undefined

$(-1, 0)$ $(6, -2)$

$\frac{\Delta y}{\Delta x} = \frac{0--2}{-1-6} = \frac{2}{-7}$

$(0, 8)$ $(-23, 8)$

$\frac{\Delta y}{\Delta x} = \frac{8-8}{-23-0} = \frac{0}{-23} = 0$

Finding Slope from Tables

1.

x	y
-2	8
0	0
2	-8
4	-16

2 ( ) −8
2 ( ) −8
2 ( ) −8

$\frac{\Delta y}{\Delta x} = \frac{-8}{2} = \frac{-4}{1}$

2.

x	y
2	14
5	35
7	49
10	70

3 ( ) 21
2 ( ) 14
3 ( ) 21

$\frac{\Delta y}{\Delta x} = \frac{21}{3} = \frac{7}{1}$

$\frac{\Delta y}{\Delta x} = \frac{14}{2} = \frac{7}{1}$

$m = \frac{7}{1}$

3. Find the slope from the information in the table below. What does the slope mean in context of this situation?

Number of Photos Printed	Total Cost, in dollars
10	2
20	4
30	6
40	8

10 ( ) 2
10 ( ) 2
10 ( ) 2

$\frac{\Delta Y}{\Delta X} = \frac{\text{Cost}}{\text{Photo}} = \frac{\$2}{10}$

$= \frac{\$1}{5}$

every 5 photos cost $1