

BE-1A! TUESDAY 3-27-07

- ① Write the point-slope form of the EOL through  $(-4, 3)$  with a slope of  $-2$

$$y - y_1 = m(x - x_1)$$

- ② Convert the EOL from #① to slope-intercept form.
- ③ Graph the line above.
- ④ What is the slope of all lines:  
    a)  $\parallel$  to the line above.  
    b)  $\perp$  to the line above.

①

An increase (↑) or decrease (↓) can be expressed as a percent (called a percent of change).

---

If new number is  $>$  original,  
it is called a percent of increase

**% ↑**

---

If new number  $<$  original,  
it is called a percent of decrease

**% ↓**

---

original = 10  
new = 12

**% ↑**

How much?

$$\frac{\text{change}}{\text{original}} = 100$$

$$\frac{2}{10} \cdot 100 = \boxed{20\% \uparrow}$$

original = 10  
new = 5

**% ↓**

$$\frac{c}{o} \cdot 100$$

$$\frac{5}{10} \cdot 100 = \boxed{50\% \downarrow}$$

$$\begin{aligned}\text{Original} &= 25 \\ \text{New} &= 28\end{aligned}$$


---

% ↑

$$\text{CHANGE} = 3, \quad \frac{\text{CHANGE}}{\text{ORIGINAL}} \cdot 100$$

$$\frac{3}{25} \cdot 100 = \boxed{12\% \uparrow}$$


---

$$\begin{aligned}\text{Original} &= 30 \\ \text{New} &= 12\end{aligned}$$


---

$$\downarrow, \quad \frac{\text{CHANGE} = 18}{\text{ORIGINAL} = 30} \cdot 100$$

$$= \frac{180}{3}$$

$$= \boxed{60\% \downarrow}$$

Ex 1 (A) (B) Pg 160

CH 3-7 Percent of change

Pg. 162 # 4 - 7

---

HW: • Read Ch. 3-7

• Pg 162 # 14 to 19

---