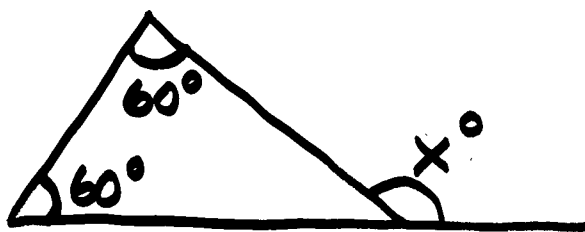


BE-18

MONDAY 8-27-07

① WHAT is the range of
 $y = -4x^2 + 2x - 3$ if the
domain is $\{-3, -2, 2\}$?

② Find x°



NOTE: the little arc  is how
you label an angle

ANSGE WB

① Pg. 47 # 4

- Review GRADED Q2
- Review graded HW 2
- Ch 3-7 Percent Change

Ch. 3-7 Percent of Change

$$\frac{\text{change}}{\text{original}} \cdot 100 = \text{PerCent Change}$$

↑ or ↓

MEMORY
Aid $\Rightarrow \frac{C}{O} = \text{Change} / \text{original}$

LOOKS LIKE
the % symbol

EX) ORIGINAL: \$120

NEW: \$114

FIND Percent
Change

Since $114 < 120$ ↓

change is $120 - 114 = 6$

$$\frac{C}{O} \cdot 100 \Rightarrow \frac{6}{120} = \frac{1}{20} \cdot 100$$

$$= \frac{1}{1} \cdot 5 = \boxed{5\% \downarrow}$$

A discount lowers your cost.

A tax raises your cost.

Since discounts and taxes are usually given as a %
 ex) 10% discount
 ex) 8% tax

You must first convert the % to a decimal:
 ex) $10\% = .10$
 ex) $8\% = .08$

By moving decimal 2 places to left

$$10\% = \underbrace{10.0}_{\text{move decimal 2 places left}} = .10$$

$$8\% = \underbrace{8.0}_{\text{move decimal 2 places left}} = .08$$

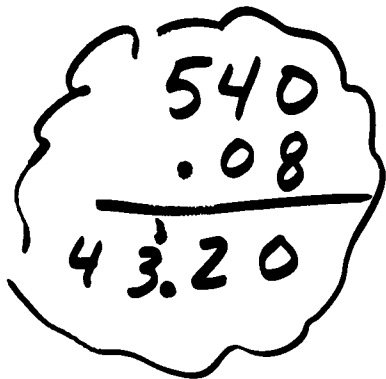
Then multiply the discount or tax decimal times the original price to find the discount amount or tax amount.
 (subtract) (add)

FIND THE TOTAL COST OF AN
iPHONE THAT IS \$600 WITH
A 10% DISCOUNT AND 8% TAX

$$\text{discount is } 600(0.10) = \$60$$

$$\text{COST IS NOW } 600 - 60 = \$540$$

$$\text{TAX IS } 540(.08) = \$43.20$$



$$\begin{array}{r} 540 \\ .08 \\ \hline 43.20 \end{array}$$

$$\text{FINAL COST IS } 540.00 \\ + 43.20$$

$$\boxed{\$583.20}$$

HOMEWORK

- Read Ch 3-7
- WRITE "How will I do better?"