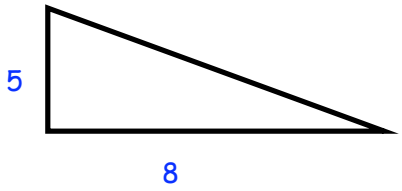
$A_\triangle = \frac{1}{2} \cdot 5 \cdot 8$

$A_\triangle = \frac{1}{2} \cdot 8 \cdot 5$

Chapter 9.5

Associative Property of Multiplication



Associative Property of Addition

12 + (7+2) and (12+7)+2

(56 + 45) + 55

56 + (45 + 55)

36 ÷ (6÷2) and (36÷6) ÷ 2

12 - (7-2) and (12-7)-2

Commutative Property of Addition

$a+b = b+a$

Commutative Property of Multiplication

$a \cdot b = b \cdot a$

$6 \cdot 2 = 2 \cdot 6$

$6 \div 2 \neq 2 \div 6$

$\frac{6}{2} \quad \frac{2}{6}$

Zero Product Property

$x(y) = 0$

either x or y or both are zero

$x(x-2)=0$

$x = 0$ $\quad x - 2 = 0$

$+2 \quad +2$

$x = 2$

$x(5-9) = 0$

$(x-3)(x+4)=0$

$x - 3 = 0 \quad x + 4 = 0$

$x = 3 \quad x = -4$

22a) $2x(3x-1)=0$

$\frac{2x}{2}=\frac{0}{2}$; $3x-1=0$

$+1 \quad +1$

$x=0$ $\qquad \frac{3x}{3}=\frac{1}{3}$

$x=\frac{1}{3}$

22b) $(3x-4)(2x+7)=0$

$3x-4=0$; $2x+7=0$

⋮ ⋮