P. 87 #42) x = # of minutes y = altitude

$y = -15x + 600$

d.) $0 = -15x + 600$

$-600 \quad -600$

$\frac{-600}{-15} = \frac{-15x}{-15}$

$40 = x$

40 minutes

x intercept y = zero $(x, 0)$

y intercept x = zero $(0, y)$

t = total calories burned

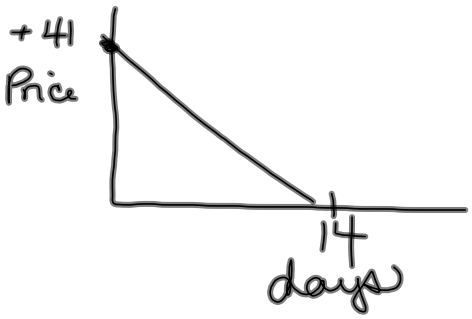
36.) $20(18) + 25(8) = t$

20.) rate $= \frac{3 \text{ ft}}{1 \text{ sec}}$

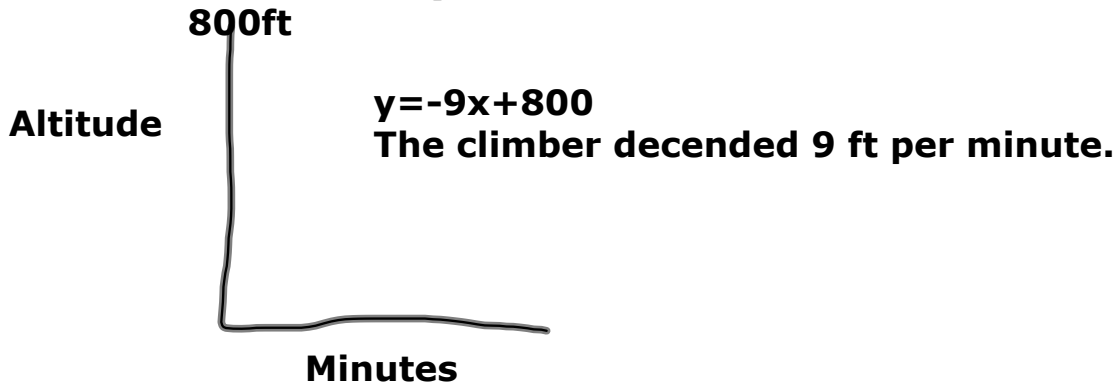
Ratio $\frac{3 \text{ ft}}{1 \text{ sec}} = \frac{-15 \text{ ft.}}{5 \text{ sec.}}$ below ground

40.) $-2.00(14)$

$y = -2(14) + 41$



2-5 Dividing Integers



a) $800 - 755 = 45\text{ft}.$

b) $\frac{\text{total } 45\text{ ft}}{\text{minutes } 5} = \frac{9\text{ ft}.}{1\text{ min}.}$

Dividing Integers

Same sign = positive

different signs = negative

$$\frac{4b}{a} \qquad a = -2,\ b = -5$$

$$\frac{4(-5)}{-2} = \frac{-20}{-2} = 10$$

$$4b \div a = \frac{4b}{a}$$

$-3 + (-2) + 1 + 0$

$-5 + 1$

$\frac{-4}{4} = -1$

Mean

average

add then divide

62.) Instead of subtracting, add the opposite

$-9 - (-7)$

$-9 + (+7)$

-2