

Algebra 2 Tues. 3-12-13 CLASS NOTES

(4) Homework Review

$$\frac{54}{\frac{9}{2}} = 12 = k \text{ or } m$$

$$y = 12x$$

(5) $\lambda = \text{lambdA}$

$$\lambda = kV$$

$$60 = k15$$

$$k = 4$$

when $V = 3$

$$\lambda = 4V$$

$$\lambda = 12$$

(6) $d = kt$
 $116.25 = k15$

$$d = 7.75t$$

$$\begin{array}{r} 007.75 \\ 15 \overline{) 116.25} \\ \underline{105} \\ 112 \\ \underline{105} \\ 75 \end{array}$$

$$\frac{178.25}{7.75} = \frac{7.75t}{7.75}$$

$$23 = t$$

$$\textcircled{7} \quad V = k l w$$

$$\frac{224}{32} = \frac{k(8)(4)}{32}$$

$$\textcircled{7 = k}$$

$$\therefore \textcircled{V = 7 l w}$$

$$\frac{210}{35} = \frac{(7)l(5)}{35}$$

$$\boxed{6 = l}$$

$$\textcircled{8} \quad C = k t^2 K$$

$$\frac{.12}{50(.06)} = \frac{k(50)(.06)}{(50)(.06)}$$

$$.04 = k$$

$$\therefore \textcircled{C = .04 t^2 K}$$

$$C = (.04)(30)(.08)$$

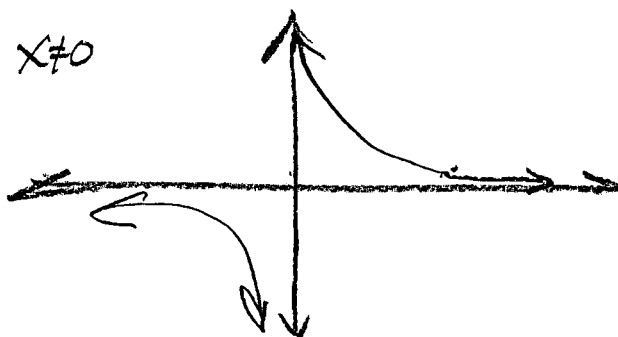
$$\boxed{C = .096}$$

$$\textcircled{9} \quad y = 2, \quad x = 7 \quad | \quad V$$

$$y = \frac{k}{x} \quad 2 = \frac{k}{7}$$

$$\therefore k = 14$$

$$\boxed{y = \frac{14}{x}} \quad x \neq 0$$



$$\textcircled{10} \quad y = 8, \quad x = 4 \quad | \quad V$$

$$y = \frac{k}{x}$$

$$k = 32$$

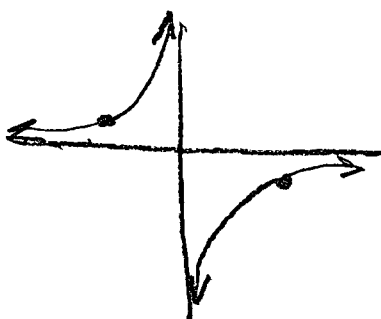
$$\boxed{y = \frac{32}{x}}$$

$$\textcircled{11} \quad y = \frac{1}{2} \quad x = -10$$

$$\frac{1}{2} = \frac{k}{-10}$$

$$k = -5$$

x	y
-5	1
5	-1



$$\boxed{y = \frac{-5}{x}}$$

(12)

 $t = \text{time}$ $d = \text{distance}$ $r = \text{avg speed}$

$$t = \frac{d}{r}$$

$$4.75 \text{ h} = \frac{d}{60 \frac{\text{mi}}{\text{hr}}}$$

$$285 \text{ mi} = d$$

$$t = \frac{285}{r}$$

$$t = \frac{285}{50} = \frac{57}{10} = 5.7$$

$$DV \Rightarrow \frac{y}{x}$$

CONSTANT

$$IV \quad xy$$

CONSTANT