Pg. 298 (8-35 every 3rd problem)

(8)

Time (mins)	Distance (m)
1	6
2	12
3	15
4	21

$6 \atop 3 \atop 6$ ... 6

* not constant

(11)

$$(\overset{x_1 \; y_1}{0,2}) \quad (\overset{x_2 \; y_2}{2,-2})$$

$$\frac{y_2-y_1}{x_2-x_1} = \frac{-2-2}{2-0} = \frac{-4}{2} = -2$$

(14)

$$(\overset{x_1 \; y_1}{0,0}) \quad (\overset{x_2 \; y_2}{6,5})$$

$$\frac{y_2-y_1}{x_2-x_1} = \frac{5-0}{6-0} = \frac{5}{6}$$

(17) $(0,0) \quad (3,3)$

$$\frac{y_2-y_1}{x_2-x_1} = \frac{3-0}{3-0} = \frac{3}{3} = 1$$

(20)

$$(\overset{x_1 \; y_1}{0,-1}) \quad (\overset{x_2 \; y_2}{2,3})$$

$$\frac{y_2-y_1}{x_2-x_1} = \frac{3--1}{2-0} = \frac{4}{2} = 2$$

(23) zero (just by looking)

$$(\overset{x_1 \; y_1}{-3,2}) \quad (\overset{x_2 \; y_2}{3,2})$$

$$\frac{y_2-y_1}{x_2-x_1} = \frac{2-2}{3--3} = \frac{0}{6} = 0$$

(26)

Day	Length
6	4
17	4

y is constant

$y = 4 \longleftrightarrow 4$

zero

* no change in y

(29)

x Uniforms	y Total
5	\$66
9	\$114

positive, both x and y are increasing

$$\frac{114-66}{9-5} = \frac{48}{4} = 12$$

(32)

x Time	y Distance
1h	200 km
3h	80 km

IV = Time   DV = Distance

$$\frac{200-80}{1-3} = \frac{120}{-2} = -60 \; km/hr$$

(35)

$$(\overset{x_1 \quad y_1}{-\frac{1}{2}, \frac{4}{7}}) \quad (\overset{x_2 \quad y_2}{8, \frac{4}{7}})$$

$$\frac{y_2-y_1}{x_2-x_1} = \frac{\frac{4}{7}-\frac{4}{7}}{8--\frac{1}{2}} = \frac{0}{8\frac{1}{2}}$$

zero