

P 296-298 (5.1)

(11) $-\frac{2}{1}$

(12) $\frac{1}{3}$

(13) $\frac{4}{1}$

(14) $\frac{5}{6}$

(15) $\frac{3}{4}$

(16) $-\frac{5}{2}$

(17) $\frac{3-0}{3-0} = \frac{3}{3} = 1$

(18) $\frac{5-3}{5-1} = \frac{2}{4} = \frac{1}{2}$

(19) $\frac{3-4}{5-4} = \frac{-1}{1} = -1$

(20) $\frac{3--1}{2-0} = \frac{4}{2} = 2$

(21) $\frac{8-1}{4--6} = \frac{7}{10}$

(22) $\frac{-4--3}{5-2} = \frac{-1}{3}$

(23) \emptyset

(24) undefined

(25) \emptyset

(42) $\frac{8-4}{x-2} = -\frac{2}{1}$

$$\begin{array}{r|l} -2x+4 & 4 \\ -4 & -4 \\ \hline -2x & 0 \\ -2 & -2 \\ \hline & x=0 \end{array}$$

(43) $\frac{y-3}{5-4} = \frac{3}{1}$

$$\begin{array}{r|l} 3 & y-3 \\ +3 & +3 \\ \hline 6 & y \end{array}$$

(44) $\frac{8-4}{x-2} = -\frac{1}{2}$

$$\begin{array}{r|l} -x+2 & 8 \\ -2 & -2 \\ \hline -x & 6 \\ & x=-6 \end{array}$$

(45) $\frac{9-y}{1-3} = -\frac{5}{2}$

$$\begin{array}{r|l} 10 & 18-2y \\ -18 & -18 \\ \hline -8 & -2y \\ -2 & -2 \\ \hline & 4=y \end{array}$$

(46) $\frac{4y-y}{2--4} = \frac{6}{1}$

$$\begin{array}{r|l} 36 & 3y \\ 3 & 3 \\ \hline 12 & y \end{array}$$

(47) $\frac{2-5}{x-3} = \frac{0}{0}$

$$3-3=0$$

$$\text{so } x=3$$

$$\textcircled{53} \quad \begin{array}{c} \overleftrightarrow{PQ} \\ \frac{2-2}{-3-4} = \frac{0}{-7} = 0 \end{array} \quad \begin{array}{c} \overleftrightarrow{PR} \\ \frac{5-2}{2-3} = \frac{3}{-1} = -3 \end{array} \quad \text{No. Different Slopes.}$$

$$\textcircled{54} \quad \begin{array}{c} \overleftrightarrow{GH} \\ \frac{-5-2}{-1-1} = \frac{-3}{-2} = \frac{3}{2} \end{array} \quad \begin{array}{c} \overleftrightarrow{HI} \\ \frac{4-5}{5-1} = \frac{-1}{4} = -\frac{1}{4} \end{array} \quad \text{Yes. Same Slope.}$$

$$\textcircled{55} \quad \begin{array}{c} \overleftrightarrow{ST} \\ \frac{2-4}{0-3} = \frac{-2}{-3} = \frac{2}{3} \end{array} \quad \begin{array}{c} \overleftrightarrow{TX} \\ \frac{0-2}{-3-0} = \frac{-2}{-3} = \frac{2}{3} \end{array} \quad \text{No. Different slopes.}$$

$$\textcircled{56} \quad \frac{-b-a}{a-a} = \frac{0}{0} = \phi \quad \textcircled{57} \quad \frac{-n-n}{3m-m} = \frac{-2n}{2m} = -\frac{n}{m}$$

$$\textcircled{58} \quad \frac{2d-b}{c-2a}$$