

7.2.2

HWK

7-49)

a) Line A has the greatest slope because it increases most quickly

b)  $y=5$

c) They are equal slopes

7-50)

Runner A slope =  $\frac{2}{6} = \frac{1}{3} = 0.3\bar{3}$  (4)

Runner B slope =  $\frac{3}{7} = 0.43$  (1)

Runner C slope =  $\frac{5}{12} = 0.42$  (2)

Runner D slope =  $\frac{4}{10} = 0.4$  (3)

Slowest  $\longleftrightarrow$  Fastest  
A, D, C, B

7-51) Speed is 0 mph.

The line would be flat or does not go up.

7-52)

$$\begin{array}{r} 23 \\ 18 \\ +29 \\ \hline 70 \end{array}$$

$100 - 70 = 30\%$  chose H<sub>2</sub>O Park

b) Water Park (30%) and Amusement (29%) very close.

c) maybe another survey with some choices eliminated.

$$7-53) \quad s = 3a - 150$$

$$s + a = 1778$$

$$(3a - 150) + a = 1778$$

$$4a - 150 = 1778$$

$$\begin{array}{r} +150 \quad +150 \\ \hline 4a = 1928 \\ \hline 4 \quad 4 \end{array}$$

$$a = 482 \Rightarrow \underline{\text{Adults}}$$

$$s = 3a - 150$$

$$s = 3(482) - 150$$

$$s = 1446 - 150$$

$$s = 1296$$

1296 students

7-54)

$$\frac{6}{10} = \frac{4}{15}$$

$$\frac{3}{5} \xrightarrow{\times 3} \frac{4}{15}$$

$$\underline{\underline{y=9}}$$

$$\frac{6}{10} = \frac{9}{x}$$

$$\frac{3}{5} \xrightarrow{\times 3} \frac{9}{x}$$

$$\underline{\underline{x=15}}$$