

Ex 5.2 - Textbook

Memo

$$1) a) \cos \theta = \frac{4}{5} = \frac{AB}{AC} = \frac{c}{b}$$

$$b) \cos \theta = \frac{8}{10} = \frac{PA}{PR} = \frac{r}{q}$$

$$c) \cos \theta = \frac{12}{15} = \frac{XY}{XZ} = \frac{z}{y}$$

$$d) \tan \theta = \frac{3}{4} = \frac{BC}{AB} = \frac{a}{c}$$

$$e) \tan \theta = \frac{6}{8} = \frac{RA}{PA} = \frac{p}{r}$$

$$f) \tan \theta = \frac{9}{12} = \frac{YZ}{XY} = \frac{x}{z}$$

$$2) a) \sin D = \frac{EF}{DF}$$

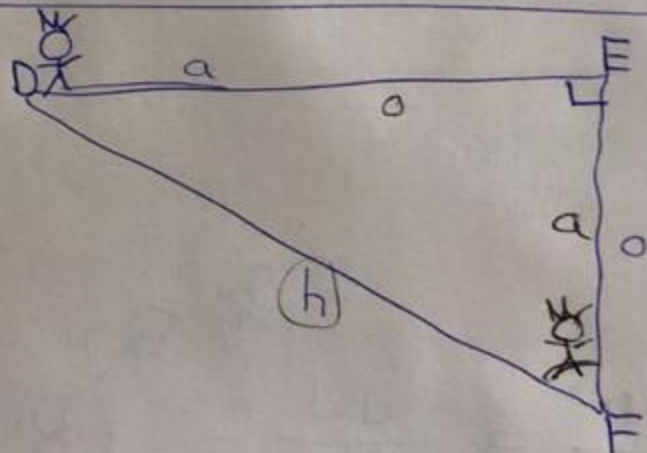
$$b) \cos D = \frac{DE}{DF}$$

$$c) \tan D = \frac{EF}{DE}$$

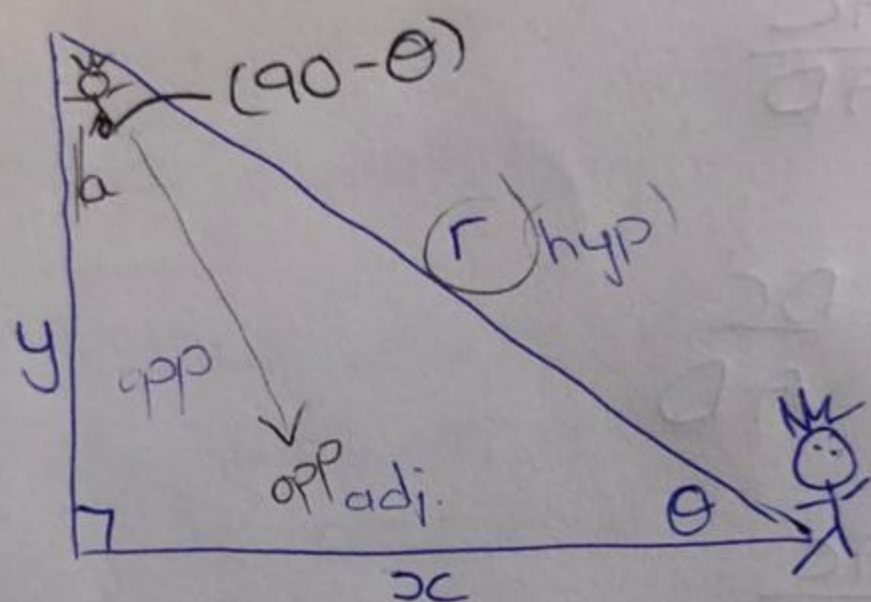
$$d) \sin F \rightarrow \frac{DE}{DF}$$

$$e) \cos F \rightarrow \frac{EF}{DF}$$

$$f) \tan F \rightarrow \frac{DE}{EF}$$



5)



$$a) \sin \theta = \frac{y}{r}$$

$$b) \cos \theta = \frac{x}{r}$$

$$c) \tan \theta = \frac{y}{x}$$

$$d) \sin(90-\theta) = \frac{x}{r}$$

$$e) \cos(90-\theta) = \frac{y}{r}$$

$$f) \tan(90-\theta) = \frac{x}{y}$$

$$7) a) \sin D = \frac{AB}{BD} = \frac{AC}{AD}$$

$$b) \cos D = \frac{AD}{BD} = \frac{DC}{AD}$$

$$c) \tan D = \frac{AB}{AD} = \frac{AC}{DC}$$

$$d) \sin B = \frac{AD}{BD} = \frac{AC}{AB}$$

$$e) \cos B = \frac{AB}{BD} = \frac{BC}{AB}$$

$$f) \tan B = \frac{AD}{AB} = \frac{AC}{BC}$$