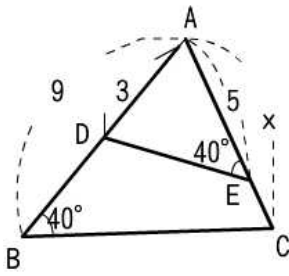


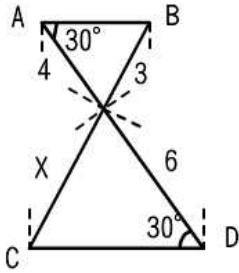
1-2 相似形練習 之一

9 年 16 班 號 姓名

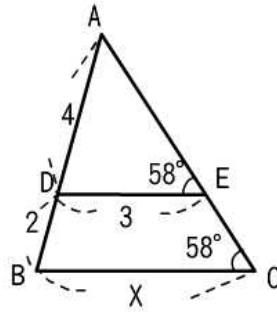
一、相似三角形對應邊



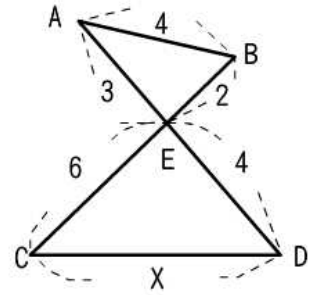
$$x = \frac{27}{5}$$



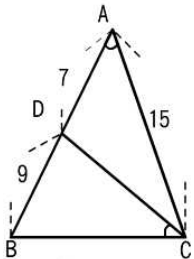
$$x = \frac{9}{2}$$



$$x = \frac{9}{2}$$

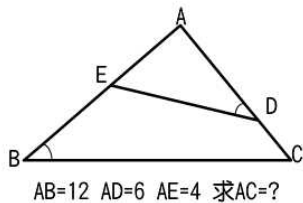


$$x = 8$$



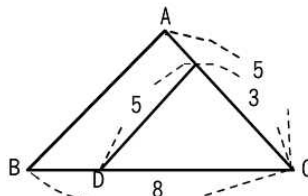
求BC=?

$$\overline{BC} = 12$$



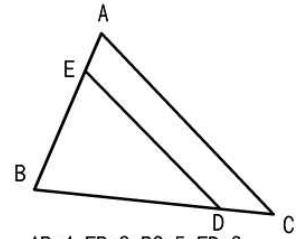
AB=12 AD=6 AE=4 求AC=?

$$\overline{AC} = 8$$



求 AB= CD=

$$\overline{AB} = \frac{25}{3} \quad \overline{CD} = \frac{24}{5}$$



求AE、BD、CD、AC之長=?

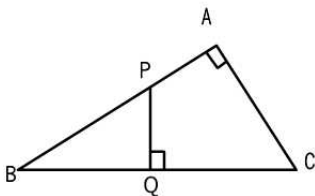
$$\overline{AE} = 1, \overline{BD} = \frac{15}{4}$$

$$\overline{CD} = \frac{5}{4}, \overline{AC} = 8$$

二、各種相似性質

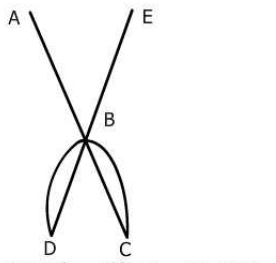
1. $\triangle ABC$ 中， $\overline{AB} = 6, \overline{BC} = 8, \overline{CA} = 10$ ，在 $\triangle DEF$ 中， $\overline{DE} = 9, \overline{EF} = 12, \overline{FD} = 15$ ，則 $\triangle ABC$ 與 $\triangle DEF$ 是否相似？若有，是依何種相似性質

2.



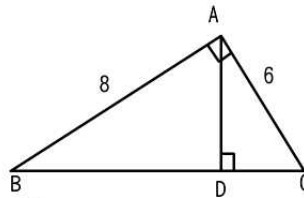
AB=12, AC=5, PQ=3, 求AP、CQ之長度=?

$$\overline{AP} = \frac{21}{5}, \overline{CQ} = \frac{29}{5}$$



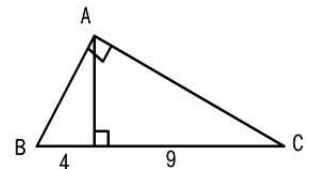
上圖為一剪刀， $AB=3BC$ ， $BE=3BD$ ， $AB=BE=6$ ， $BC=BD=2$ ， $AE=4$ ，求CD=?

$$\overline{CD} = \frac{4}{9}$$



求BC= BD= CD= AD=

$$\overline{BC} = 10, \overline{BD} = \frac{32}{5}, \overline{CD} = \frac{18}{5}, \overline{AD} = \frac{24}{5}$$



求AD=

AB:AC之比值=

$$\overline{AB} : \overline{AC} = \frac{2}{3}$$