

SERIE 49 Théorème de Thalès

Calculatrice autorisée

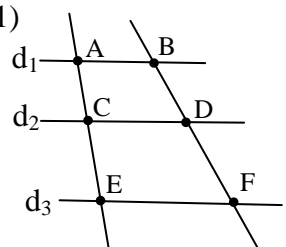
Exercices supplémentaires

Exercice 1 :

On considère sur tous les croquis que $d_1 \parallel d_2 \parallel d_3$.
Calculer dans chaque cas les longueurs demandées.

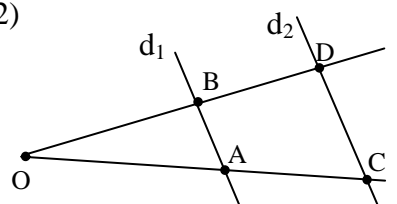
Unités : cm

1)



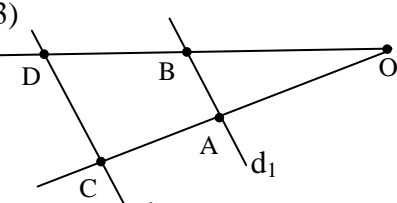
$\overline{AC} = 3$
 $\overline{CE} = 8$
 $\overline{DF} = 16$
 $\overline{BD} = ?$

2)



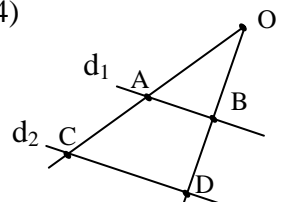
$\overline{OB} = 4$
 $\overline{AB} = 5$
 $\overline{CD} = 20$
 $\overline{OD} = ?$

3)



$\overline{OD} = 144$
 $\overline{OB} = 19$
 $\overline{OC} = 12$
 $\overline{OA} = ?$

4)



$\overline{OA} = 3$
 $\overline{AC} = 2$
 $\overline{AB} = 6$
 $\overline{CD} = ?$
 $\overline{BD} = ?$

Réponses :

1) $\overline{BD} = 6$ cm

3) $\overline{OA} = 1,58$ cm

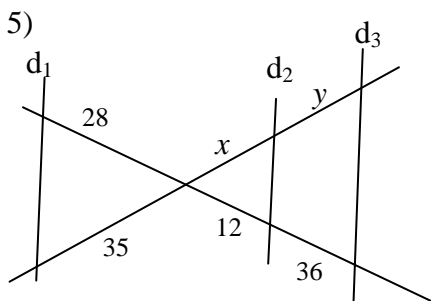
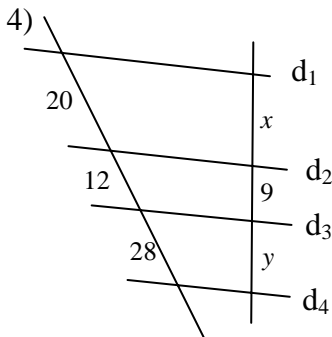
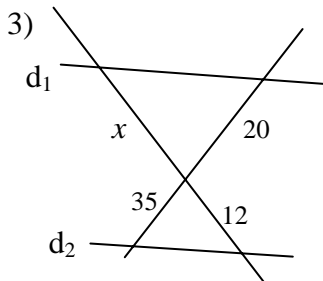
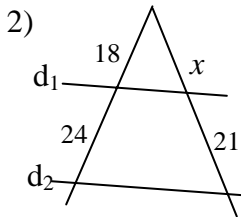
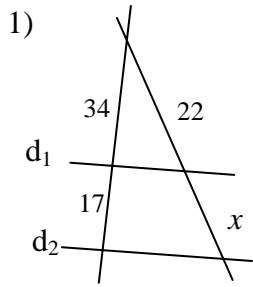
2) $\overline{OD} = 16$ cm

4) $\overline{CD} = 10$ cm et \overline{BD} ne peut être calculé

Exercice 2 :

On considère sur tous les **croquis** que $d_1 \parallel d_2 \parallel d_3 \parallel d_4$.
Calculer dans chaque cas les dimensions inconnues.

Unités : mm



Réponses :

1) $x = 11$ mm

2) $x = 15,75$ mm

3) $x = 6,86$ mm

4) $x = 15$ mm et $y = 21$ mm

5) $x = 15$ mm et $y = 45$ mm