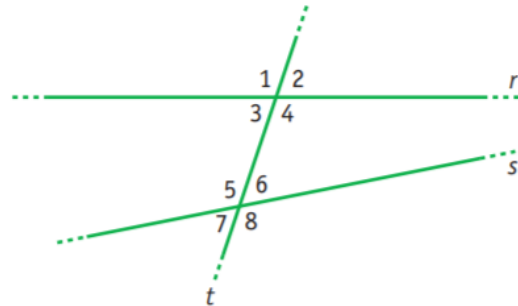


RETTE PARALLELE TAGLIATE DA TRASVERSALE
(Prof. Daniele Baldissin)

ESERCIZIO 1.

Osserva la figura a fianco e indica il nome degli angoli che la trasversale t forma con le due rette r ed s .



- 3 e 6, 4 e 5 si dicono angoli
- 1 e 8, 2 e 7 si dicono angoli
- 1 e 5, 2 e 6 si dicono angoli
- 3 e 7, 4 e 8 si dicono angoli
- 3 e 5, 4 e 6 si dicono angoli
- 1 e 7, 2 e 8 si dicono angoli

ESERCIZIO 2.

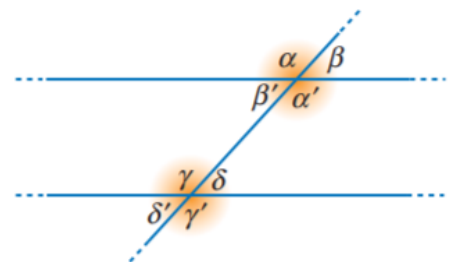
Segna il completamento esatto.

Secondo il criterio di parallelismo se due rette sono parallele allora, tagliate da una trasversale, formano:

- angoli alterni e angoli corrispondenti supplementari e angoli coniugati congruenti;
- angoli alterni e angoli corrispondenti congruenti e angoli coniugati supplementari;
- angoli alterni, angoli corrispondenti e angoli coniugati congruenti.

ESERCIZIO 3.

In riferimento alla figura a fianco completa quanto richiesto.

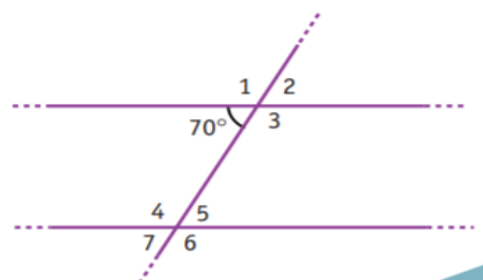


- $\hat{\beta}'$ e $\hat{\delta}$ sono angoli e sono fra loro
- $\hat{\alpha}'$ e $\hat{\gamma}'$ sono angoli e sono fra loro
- $\hat{\alpha}$ e $\hat{\delta}'$ sono angoli e sono fra loro
- $\hat{\beta}'$ e $\hat{\gamma}$ sono angoli e sono fra loro

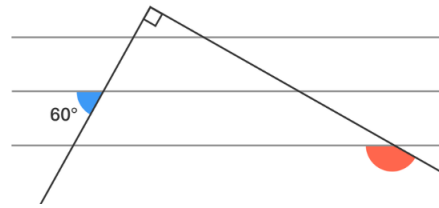
ESERCIZIO 4.

In riferimento alla figura a fianco completa quanto richiesto.

- L'angolo 1 misura
- L'angolo 3 misura
- L'angolo 5 misura
- L'angolo 4 misura
- L'angolo 7 misura



ESERCIZIO 5.



- 30
- 135
- 150
- 210
- 240

Given that all three of the horizontal lines are parallel, what is the measurement of the red angle in degrees?

Note: The diagram is not drawn to scale.

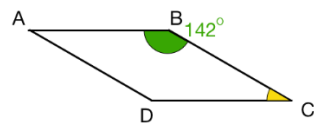
ESERCIZIO 6.

Imgur

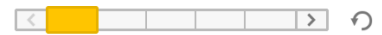
The lines \overleftrightarrow{AB} and \overleftrightarrow{CD} are parallel in the diagram above. Find x in degrees.

ESERCIZIO 7.

Parallel Lines

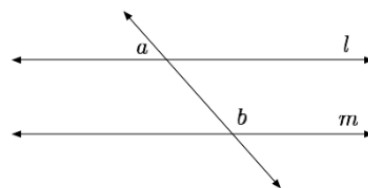


In parallelogram $ABCD$, we are given that the green angle $\angle ABC = 142^\circ$. What is the yellow angle $\angle BCD$?



- 38°
- 71°
- 42°
- 142°

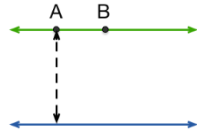
ESERCIZIO 8.



If $l \parallel m$, and $\angle a = 21^\circ$, what is the measure of $\angle b$ in degrees?

ESERCIZIO 9.

Parallel Lines

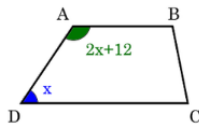


The green and blue lines are parallel, and A and B are points on the green line. If the shortest distance from A to the blue line is 5, what can we say about the shortest distance from B to the blue line?



- It is greater than 5
- It is equal to 5
- It is less than 5
- Cannot be determined

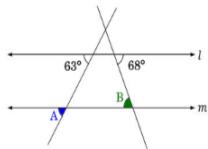
ESERCIZIO 10.



Trapezoid $ABCD$ has $\angle D = x$ and $\angle A = 2x + 12^\circ$. What is the measure of $\angle D$?

- 52°
- 59°
- 55°
- 56°

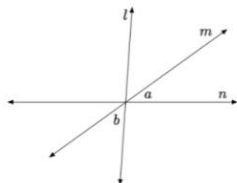
ESERCIZIO 11.



In the above diagram, if $l \parallel m$, what is the measure of $\angle A + \angle B$?

- 134°
- 137°
- 140°
- 131°

ESERCIZIO 12.

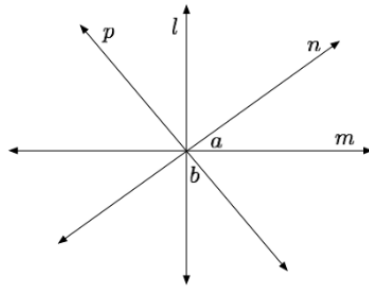


Given that $\angle a = 53^\circ$ and $\angle b = 37^\circ$, which of the following statements are true:

- I) l and m are perpendicular.
- II) l and n are perpendicular.
- III) None of the lines in this diagram are perpendicular.

- Only statement III is true.
- Only statement II is true.
- Statements I and II are both true.
- Only statement I is true.

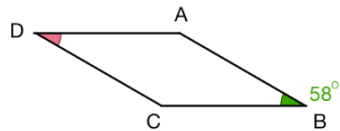
ESERCIZIO 13.



- 13°
- 31°
- 59°
- 90°

If $l \perp m$ and $n \perp p$ and $\angle a = 31^\circ$, what is the measure of $\angle b$ in degrees?

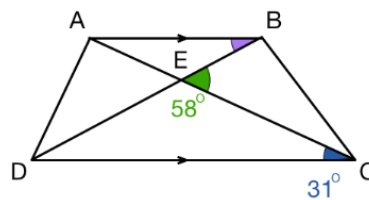
ESERCIZIO 14.



- 29°
- 32°
- 45°
- 58°

In parallelogram $ABCD$, the green angle $\angle ABC = 58^\circ$. What is the pink angle $\angle ADC$?

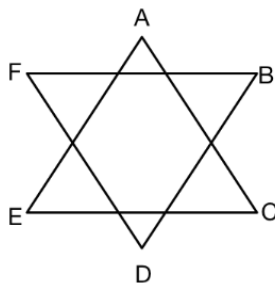
ESERCIZIO 15.



- 27°
- 31°
- 89°
- 58°

Given quadrilateral $ABCD$ where AB is parallel to DC and AC and BD intersect at E , with $\angle BEC = 58^\circ$ and $\angle ACD = 31^\circ$, what is $\angle ABE$ (in degrees)?

ESERCIZIO 16.



- 360°
- 180°
- 540°
- 720°

Consider a 6 sided star that is formed from 2 triangles as above. What is the sum of the angles at A, B, C, D, E and F?