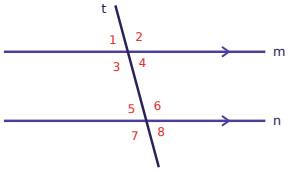
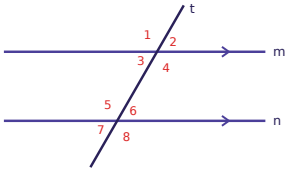
Parallel Lines & Transversals · 1

$\angle 2 = (6x + 15)°$ and $\angle 6 = (3x + 60)°$. Find x.



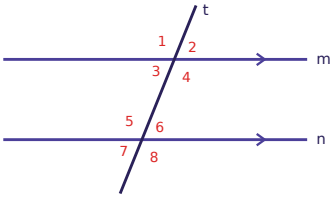
Parallel Lines & Transversals · 2

$\angle 8 = 120°$. Find the measure of $\angle 4$.



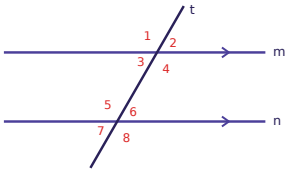
Parallel Lines & Transversals · 3

What kind of angle pair are ∠3 and ∠7: corresponding, alternate interior, alternate exterior, same-side interior, or vertical?



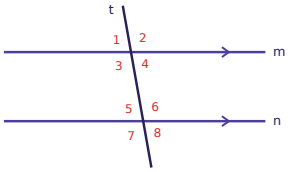
Parallel Lines & Transversals · 4

$\angle 3 = (4x + 12)°$ and $\angle 6 = (5x)°$. Find x.



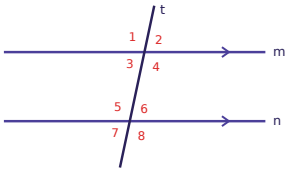
Parallel Lines & Transversals · 5

$\angle 1 = (4x + 24)°$ and $\angle 8 = (2x + 52)°$. Find x.



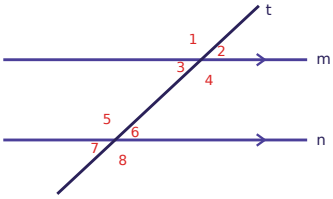
Parallel Lines & Transversals · 6

$\angle 1 = 102°$. Find the measure of $\angle 8$.



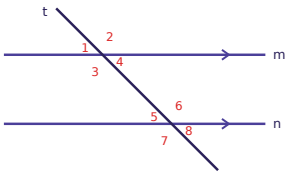
Parallel Lines & Transversals · 7

What kind of angle pair are ∠5 and ∠3: corresponding, alternate interior, alternate exterior, same-side interior, or vertical?



Parallel Lines & Transversals · 8

$\angle 6 = (4x + 99)°$ and $\angle 7 = (2x + 117)°$. Find x.



Parallel Lines & Transversals · 2

ANSWER

120

Parallel Lines & Transversals · 1

ANSWER

x = 15

Parallel Lines & Transversals · 4

ANSWER

x = 12

Parallel Lines & Transversals · 3

ANSWER

corresponding

Parallel Lines & Transversals · 6

ANSWER

102

Parallel Lines & Transversals · 5

ANSWER

x = 14

Parallel Lines & Transversals · 8

ANSWER

x = 9

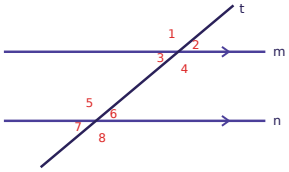
Parallel Lines & Transversals · 7

ANSWER

same-side interior

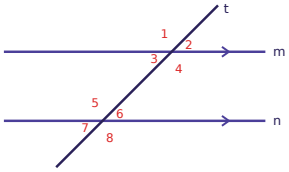
Parallel Lines & Transversals · 9

∠2 = (5x + 5)° and ∠6 = (2x + 26)°. Find x.



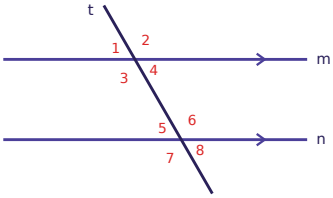
Parallel Lines & Transversals · 10

∠5 = 135°. Find the measure of ∠6.



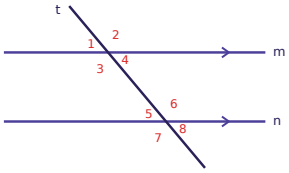
Parallel Lines & Transversals · 11

What kind of angle pair are ∠3 and ∠6: corresponding, alternate interior, alternate exterior, same-side interior, or vertical?



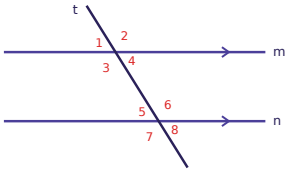
Parallel Lines & Transversals · 12

∠1 = (4x + 2)° and ∠8 = (6x - 22)°. Find x.



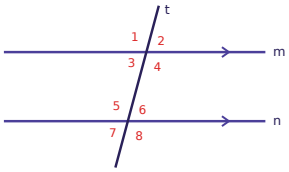
Parallel Lines & Transversals · 13

∠1 = (4x + 26)° and ∠5 = (2x + 42)°. Find x.



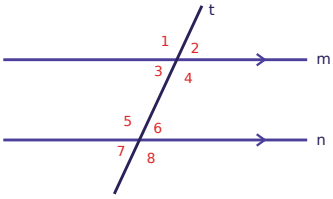
Parallel Lines & Transversals · 14

∠2 = 75°. Find the measure of ∠3.



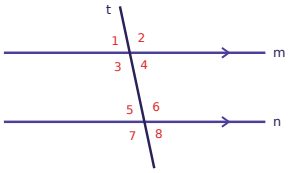
Parallel Lines & Transversals · 15

What kind of angle pair are ∠8 and ∠5: corresponding, alternate interior, alternate exterior, same-side interior, or vertical?



Parallel Lines & Transversals · 16

∠2 = (3x + 57)° and ∠3 = (2x + 72)°. Find x.



Parallel Lines & Transversals · 10

ANSWER

45

Parallel Lines & Transversals · 9

ANSWER

x = 7

Parallel Lines & Transversals · 12

ANSWER

x = 12

Parallel Lines & Transversals · 11

ANSWER

alternate interior

Parallel Lines & Transversals · 14

ANSWER

75

Parallel Lines & Transversals · 13

ANSWER

x = 8

Parallel Lines & Transversals · 16

ANSWER

x = 15

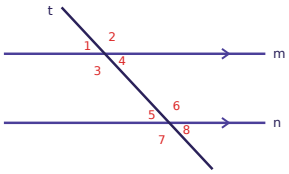
Parallel Lines & Transversals · 15

ANSWER

vertical

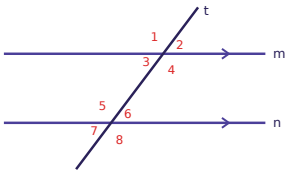
Parallel Lines & Transversals · 17

∠2 = (5x + 98)° and ∠3 = (4x + 105)°. Find x.



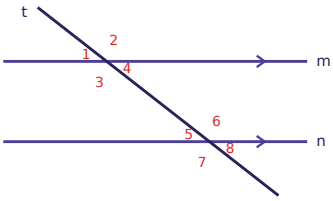
Parallel Lines & Transversals · 18

∠7 = 53°. Find the measure of ∠1.



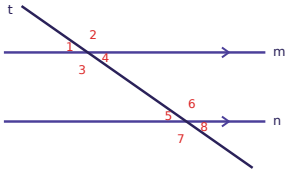
Parallel Lines & Transversals · 19

What kind of angle pair are ∠3 and ∠2: corresponding, alternate interior, alternate exterior, same-side interior, or vertical?



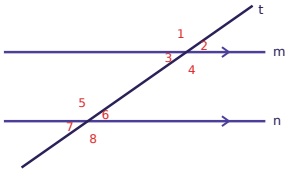
Parallel Lines & Transversals · 20

∠4 = (4x - 9)° and ∠6 = (2x + 123)°. Find x.



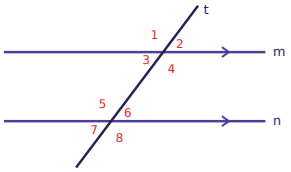
Parallel Lines & Transversals · 21

∠1 = (4x + 105)° and ∠8 = (6x + 85)°. Find x.



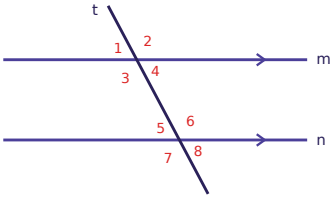
Parallel Lines & Transversals · 22

∠6 = 53°. Find the measure of ∠1.



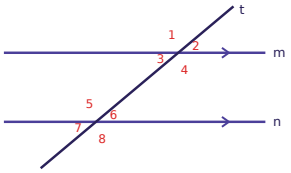
Parallel Lines & Transversals · 23

What kind of angle pair are ∠1 and ∠4: corresponding, alternate interior, alternate exterior, same-side interior, or vertical?



Parallel Lines & Transversals · 24

∠3 = (3x - 2)° and ∠7 = (2x + 12)°. Find x.



Parallel Lines & Transversals · 18

ANSWER

127

Parallel Lines & Transversals · 17

ANSWER

x = 7

Parallel Lines & Transversals · 20

ANSWER

x = 11

Parallel Lines & Transversals · 19

ANSWER

vertical

Parallel Lines & Transversals · 22

ANSWER

127

Parallel Lines & Transversals · 21

ANSWER

x = 10

Parallel Lines & Transversals · 24

ANSWER

x = 14

Parallel Lines & Transversals · 23

ANSWER

vertical