

Angle Pair Relationships

Math Essentials

Complementary Angles

- 2 angles whose measures add up to 90 degrees.

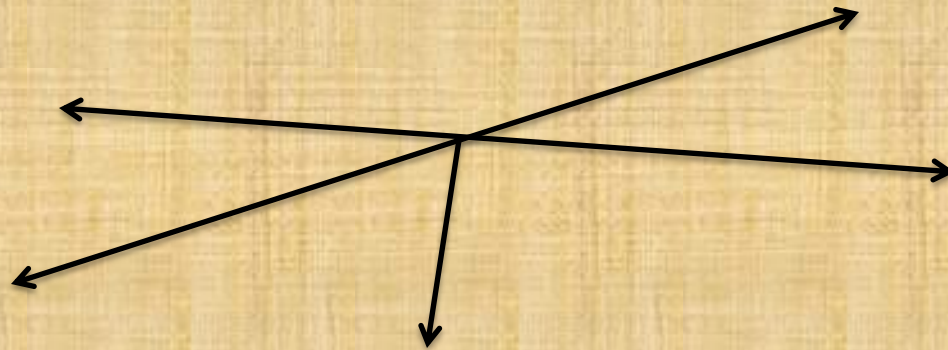
Examples:

Supplementary Angles

- 2 angles whose measures add up to 180 degrees

Examples:

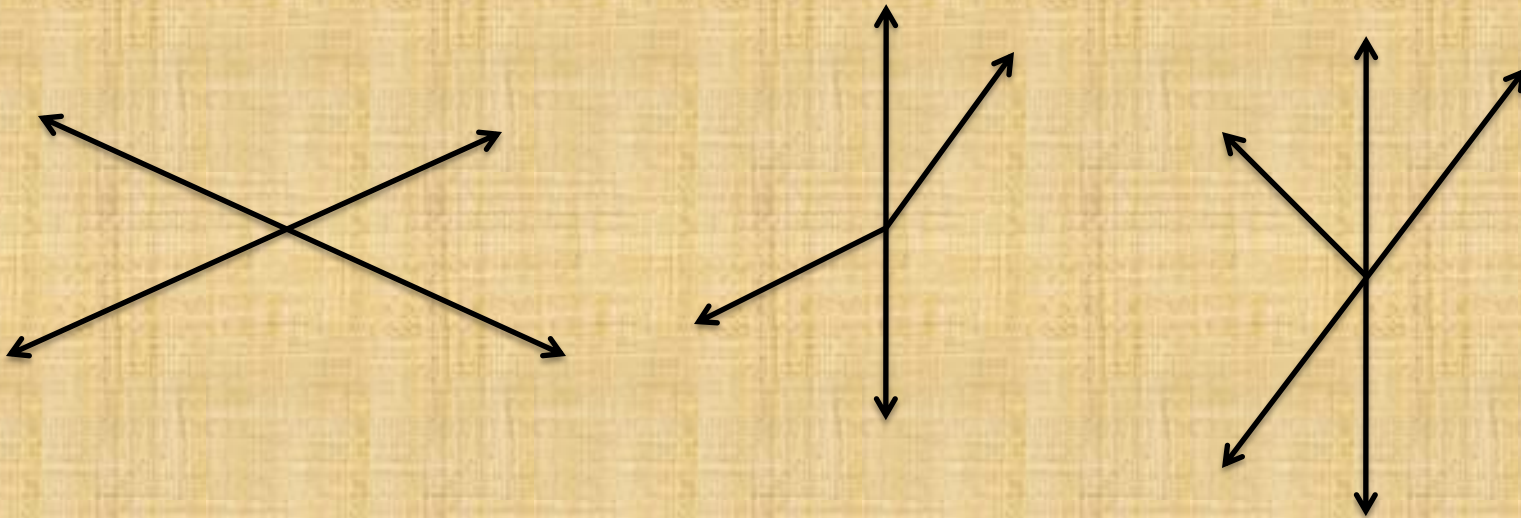
Linear pair – 2 adjacent angles that form a straight line.



Vertical Angles

- 2 angles that are made of the same 2 lines and are straight across from each other.
- Vertical angles are always congruent.

Examples:

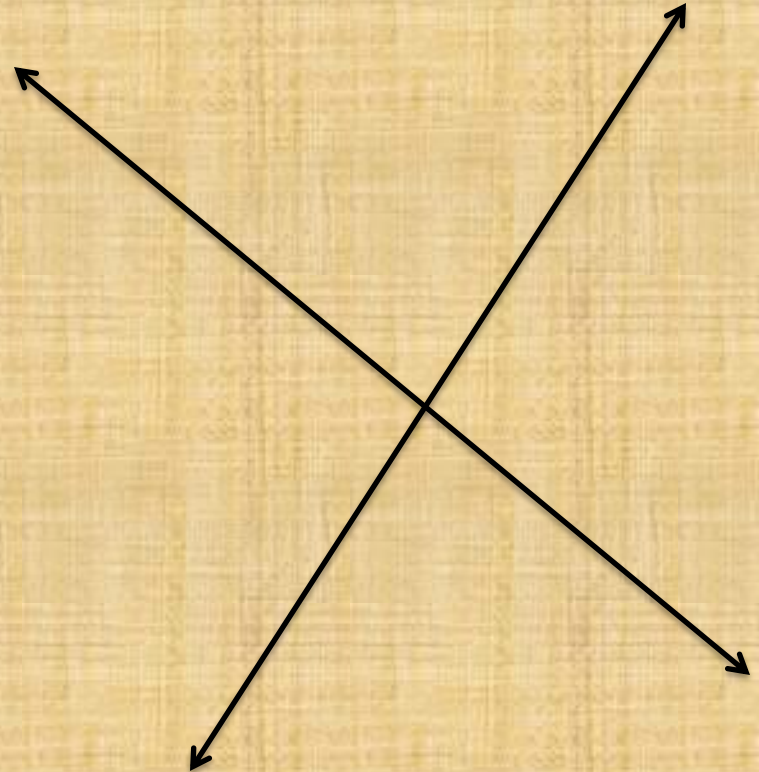


Find the measure of angle 1 given that:

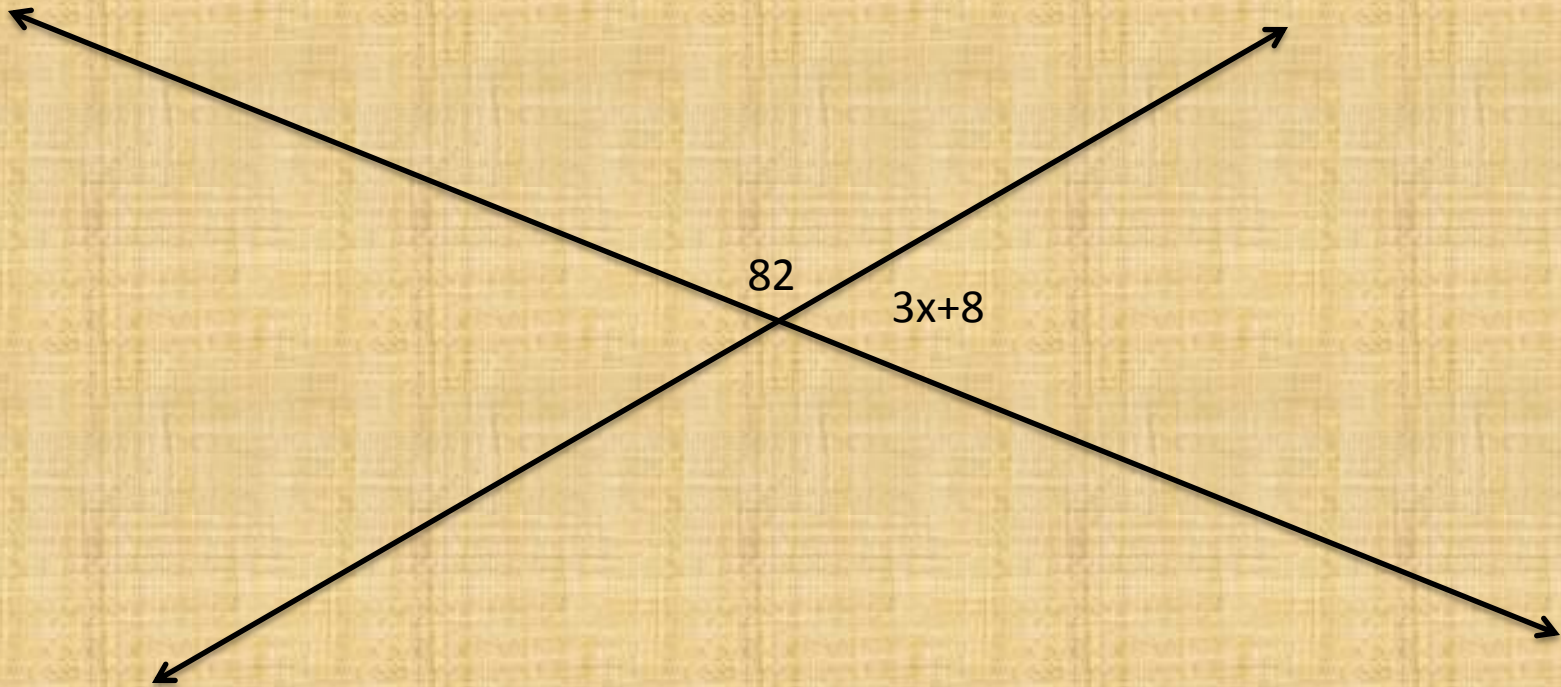
Angle 2 =

Angle 3 =

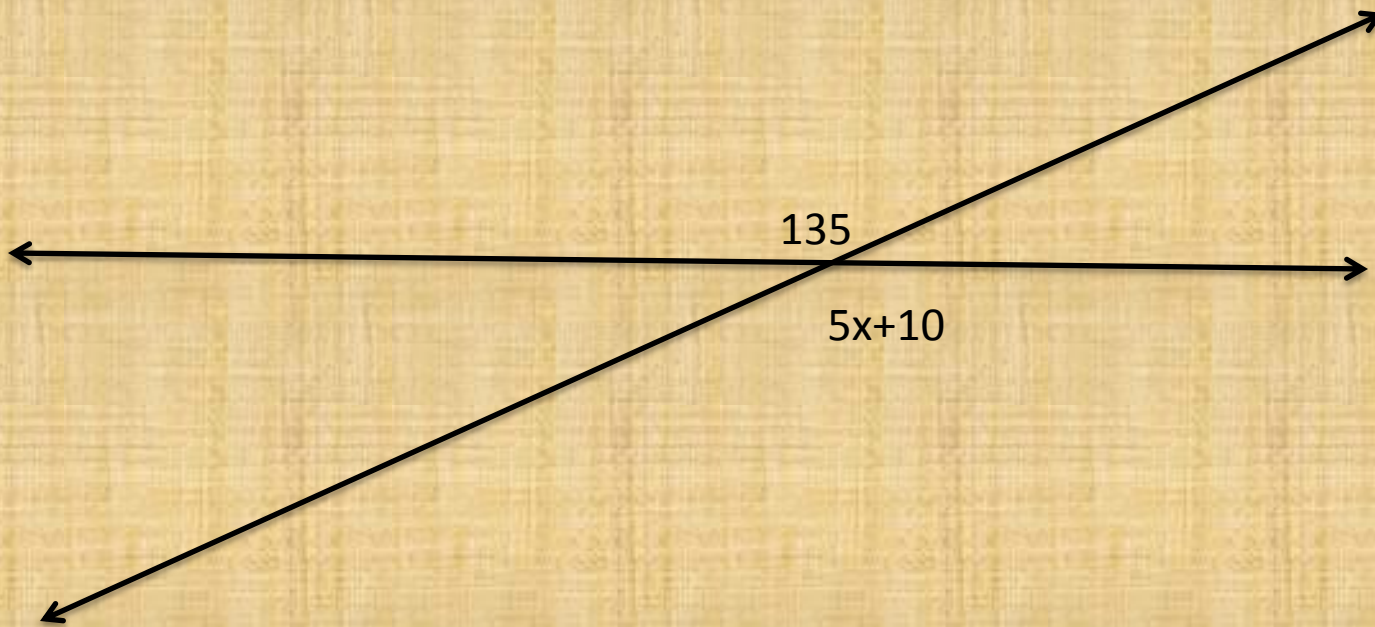
Angle 4 =



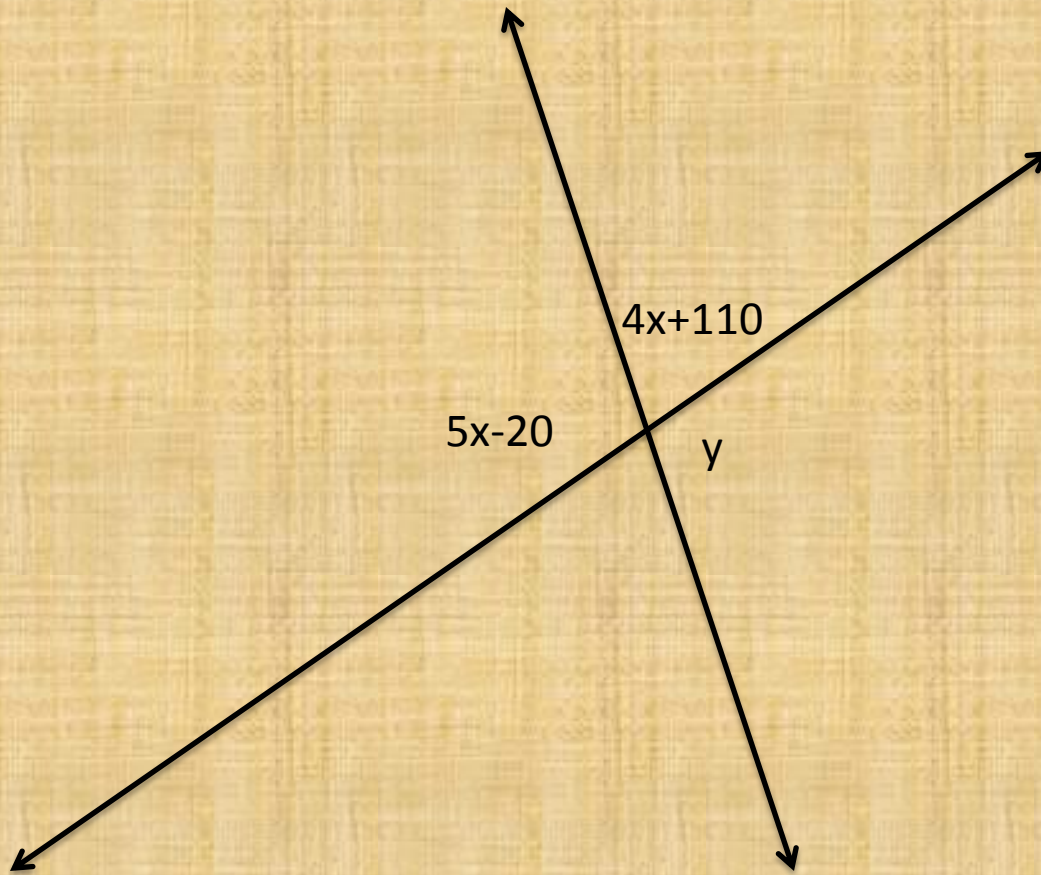
Find the value of x .



Find the value of x .



Find the value of x and y .



$\angle A$ and $\angle B$ are complementary.

Find $m\angle A$ and $m\angle B$ if:

$$m\angle A = 8x - 7$$

and

$$m\angle B = x + 4$$

$\angle A$ and $\angle B$ are supplementary.

Find $m\angle A$ and $m\angle B$ if:

$$m\angle A = 12x + 1$$

and

$$m\angle B = x + 10$$

Angle A and B are supplementary.
The measure of angle B is 4 times
the size of angle A.

Find the measure of both angles.

Angle A and B are complementary.
The measure of angle B is 8 times
the size of angle A.

Find the measure of both angles.