

Slide 2

$$X - y = 2x + 1$$
$$\boxed{-1 = x + y}$$

$$X - 1 = 10 + y$$
$$\boxed{X - y = 11}$$

$$X - y = 11$$
$$X + y = -1$$
$$2x = 10$$
$$\boxed{x = 5}$$

$$5 - y = 11$$
$$\boxed{-6 = y}$$

Final Answer
 $(5, -6)$

Slide 3

$$2(3x - 5) = 5x + 2$$
$$6x - 10 = 5x + 2$$
$$\boxed{x = 12}$$

$$y + 8 = x - y$$
$$y + 8 = 12 - y$$
$$2y = 4$$
$$\boxed{y = 2}$$

Final Answer
 $12, 2$

Slide 4

$$2(x+y) = y+1$$

$$2x + 2y = y + 1$$

$$2x + y = 1$$

$$-2x + 2y = 20 \quad \leftarrow \times(-1)$$

$$3y = 21$$

$$y = 7$$

$$2(x+8) = 2y - 4$$

$$2x + 16 = 2y - 4$$

$$2x - 2y = -20$$

$$2x - (2)(7) = -20$$

$$2x - 14 = -20$$

$$2x = -6$$

$$x = -3$$

Final Answer

-3, 7

Slide 5

$$2(x+y) = 3y + 1$$

$$2x + 2y = 3y + 1$$

$$2x - y = 1$$

$$x + 2y = 4x$$

$$0 = 3x - 2y$$

$$-2 = -4x + 2y$$

$\times(-2)$

$$-2 = -x$$

$$2 = x$$

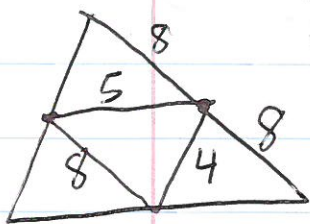
$$2(2) - y = 1$$

$$3 = y$$

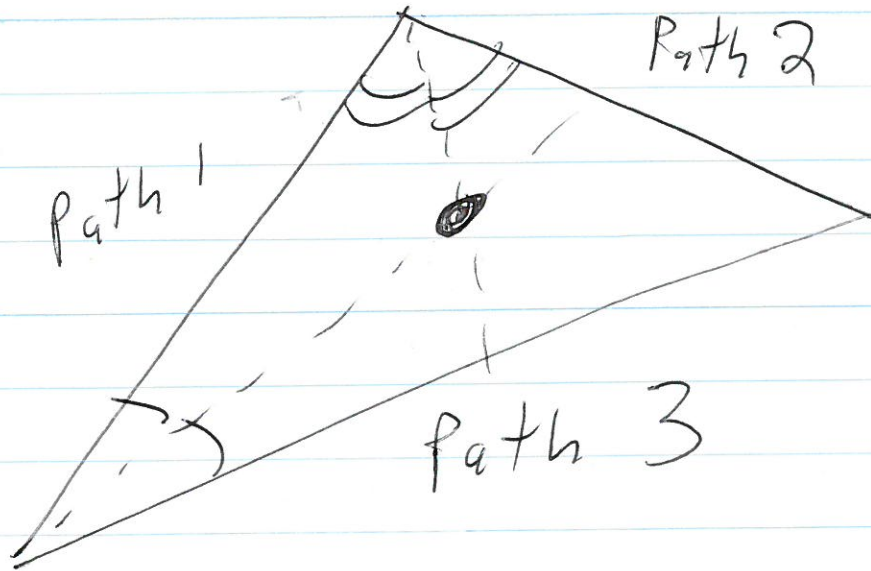
(2, 3)

Final Answer

P = 17



Slide 6



- Find the point of concurrency of the angle bisectors.
- That is called the incenter.

