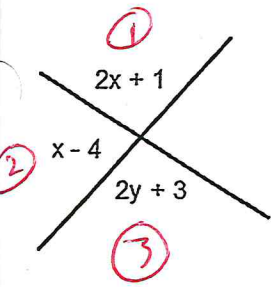


9. Solve for x and y. Justify every equation that you used



$$2x + 1 + x - 4 = 180$$

$$3x - 3 = 180$$

$$\frac{3x - 3 = 180}{3}$$

$$x = 61$$

~~61~~

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

$$2(61) + 1 = 2y + 3$$

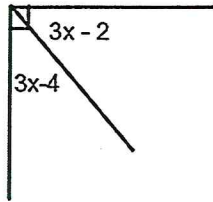
$$122 + 1 = 2y + 3$$

$$\frac{2y + 3 = 123}{-3 \quad -3}$$

$$\frac{2y = 120}{2}$$

$$y = 60$$

10. Solve for x



$$3x - 2 + 3x - 4 = 90$$

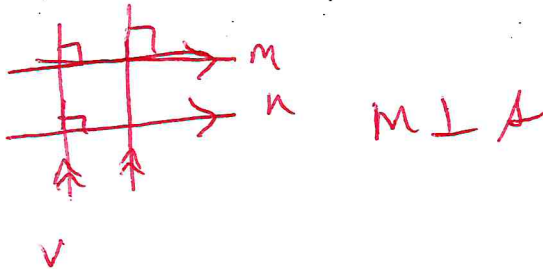
$$6x - 6 = 90$$

$$6x = 96$$

$$x = 16$$

11. Construct lines m, n, v, and s. How are m and s related?

$m \parallel n$, $n \perp v$, $v \parallel s$

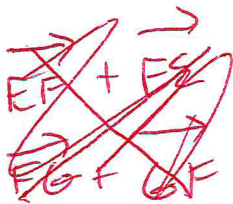
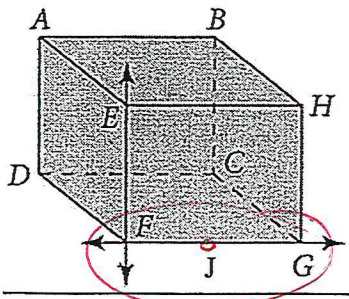


12. Use the given figure.

a) Identify opposite rays

b) Named the intersection of Planes EFG and BHC

c) Name 3 collinear points



c) F, J, G

b) \overleftrightarrow{HG}

a) $\overrightarrow{JG} + \overrightarrow{JF}$