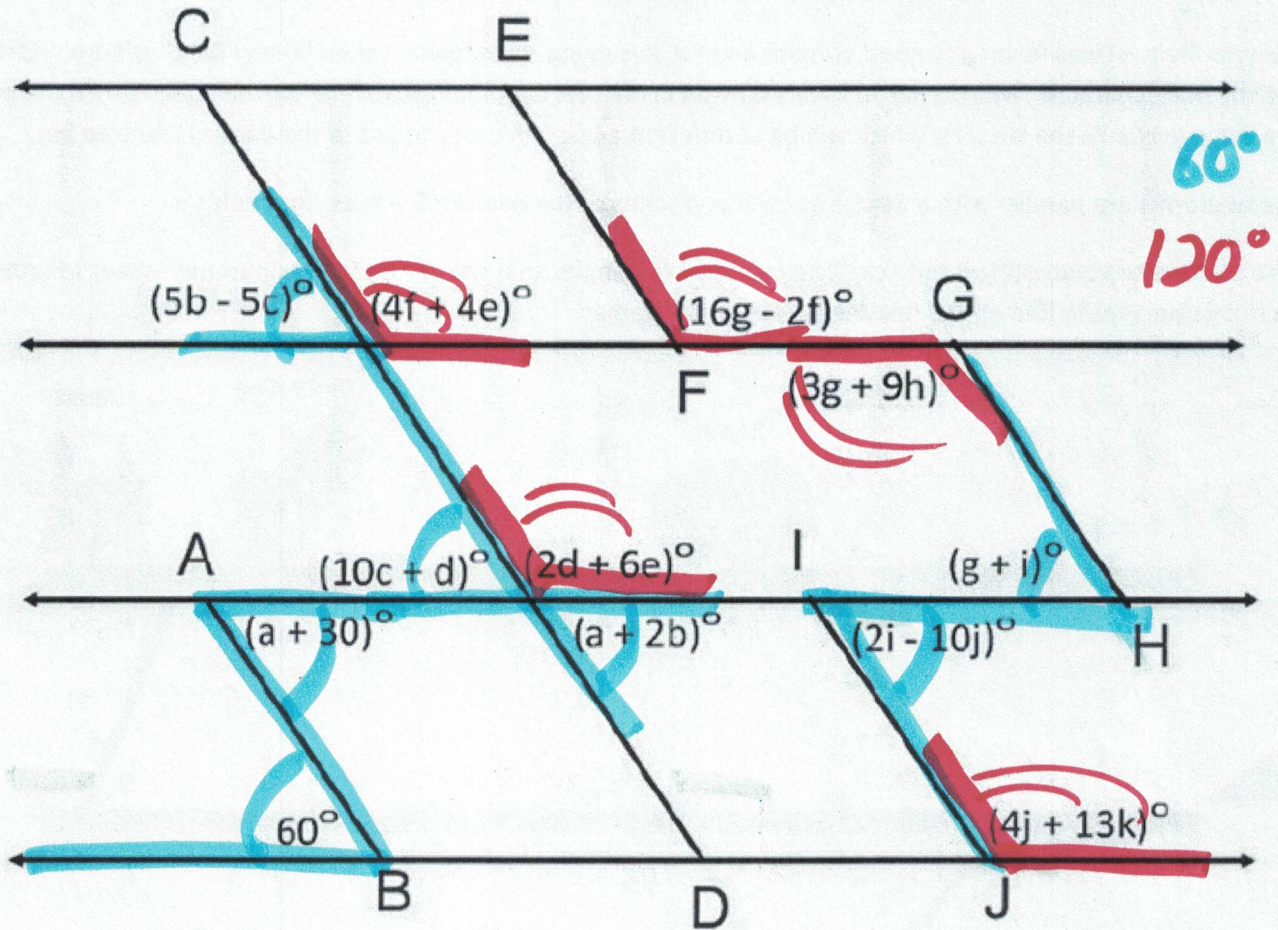


Part 2: Parallel Lines Overload!!

KEY

Given: $\overline{AB} \parallel \overline{CD} \parallel \overline{EF} \parallel \overline{GH} \parallel \overline{IJ}$ and $\overline{CE} \parallel \overline{FG} \parallel \overline{AH} \parallel \overline{BD}$. Find the value of all variables a through k .



$$a + 30 = 60$$

$$\boxed{a = 30}$$

$$30 + 2b = 60$$

$$2b = 30$$

$$\boxed{b = 15}$$

$$75 - 5c = 60$$

$$5c = 15$$

$$\boxed{c = 3}$$

$$30 + d = 60$$

$$\boxed{d = 30}$$

$$60 + 6e = 120$$

$$6e = 60$$

$$\boxed{e = 10}$$

$$4f + 40 = 120$$

$$4f = 80$$

$$\boxed{f = 20}$$

$$16g - 40 = 120$$

$$16g = 160$$

$$\boxed{g = 10}$$

$$30 + 9h = 120$$

$$9h = 90$$

$$\boxed{h = 10}$$

$$10 + i = 60$$

$$\boxed{i = 50}$$

$$100 - 10j = 60$$

$$10j = 40$$

$$\boxed{j = 4}$$

$$16 + 13k = 120$$

$$13k = 104$$

$$\boxed{k = 8}$$