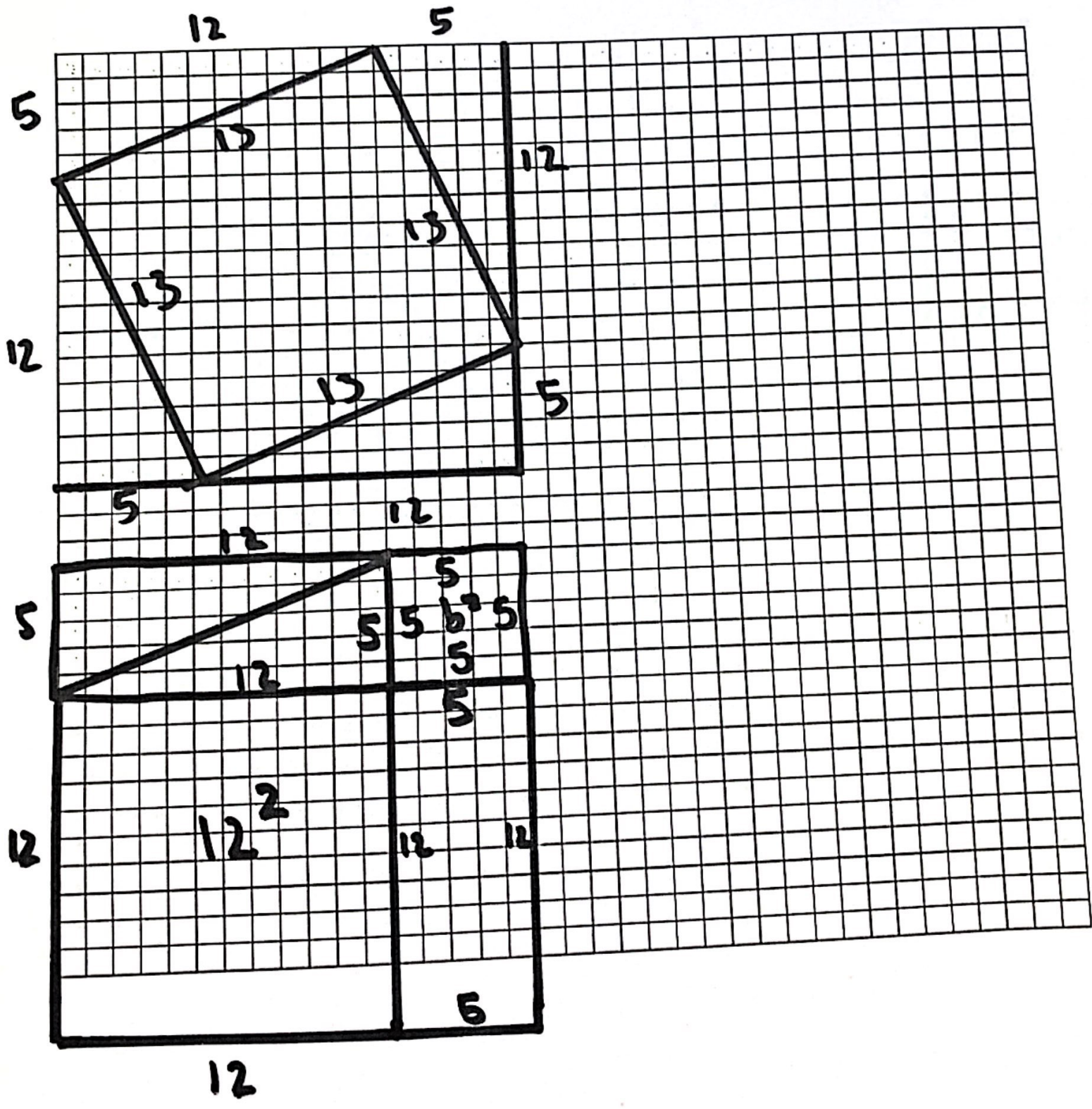
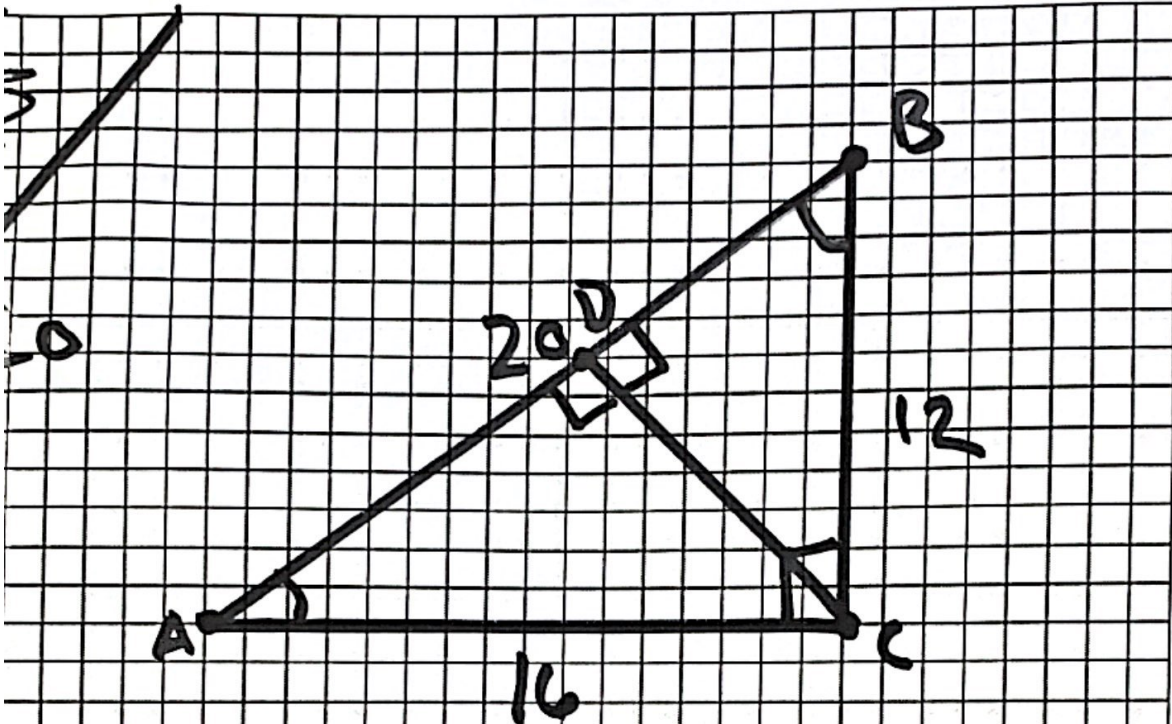


1.



2.



$$\triangle ADC \sim \triangle ACB$$

$$\frac{AC}{AB} = \frac{AD}{AC} \rightarrow \frac{16}{20} = \frac{AD}{16}$$

$$16^2 = 20AD$$

$$\triangle BDC \sim \triangle BCA$$

$$\frac{BC}{BA} = \frac{BD}{BC} \rightarrow \frac{12}{20} = \frac{BD}{12} \rightarrow 12^2 = 20BD$$

$$16^2 + 12^2 = 20AD + 20BD$$

$$16^2 + 12^2 = 20(\underbrace{AD + BD}_{20})$$

$$16^2 + 12^2 = 20^2$$

Larry Vo
OK

H.W 5

3. $a = 120$, $120 = 2mn \rightarrow 60 = mn$

1. $m = 30$, $n = 2$

$a = 120$, $b = 30^2 - 2^2 = 896$, $c = 30^2 + 2^2 = 904$

2. $m = 2$, $n = 30$

$a = 120$, $b = 2^2 - 30^2 = -896$, $c = 2^2 + 30^2 = 904$

which is primitive

$m = 15$, $n = 4$

$a = 120$, $b = 15^2 - 4^2 = 209$, $c = 241$

if switch m, n then it is primitive.

$a = 120$, $b = 10^2 - 6^2 = 64$, $c = 136$

$a = 120$, $b = 12^2 - 5^2 = 119$, $c = 169$

5. Frenicle de Bessy

6. Leonhard Euler

7. Fermat

8. Andrew Wiles