9.2.1 #54-61

9-54 a.) 5cm, 6cm, 7cm

$11 > 7$

Yes, it will Δ.

$(5)^2$ $(6)^2$ $(7)^2$

$25 + 36$ 49

$61 > 49$

Acute

b.) 2cm, 11cm, 15cm

$13 < 15$

No triangle.

c.) 10, 15, 20

$25 > 20$

Yes, it will Δ.

$(10)^2$ $(15)^2$ $(20)^2$

$100 + 225$ 400

$325 < 400$

Obtuse

d.) 10, 24, 26

$34 > 26$

Yes, it will Δ.

$(10)^2$ $(24)^2$ $(26)^2$

$100 + 576$ 676

$676 = 676$

Right

e.) 1, 3, 9

$4 < 9$

No triangle

f.) 2, 10, 11

$12 > 11$

Yes, it will Δ.

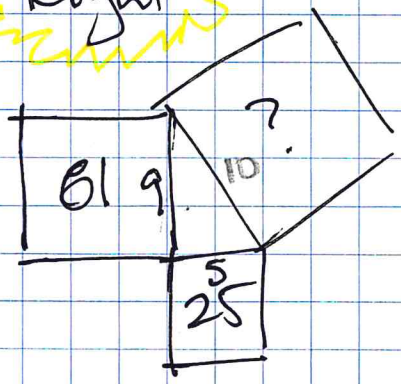
$(2)^2$ $(10)^2$ $(11)^2$

$4 + 100$ 121

$104 < 121$

Obtuse.

9-55



a.) Obtuse

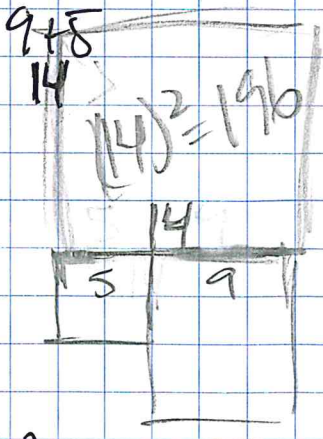
$61 + 25$

$106 < A < 196$

b.) Acute

$61 + 25$

$A < 106$



$(10)^2 = 100$ He should use a square with an area of 100.