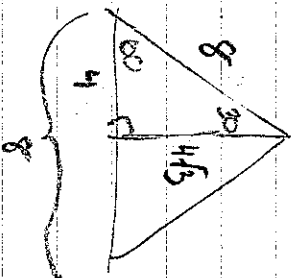


11.2

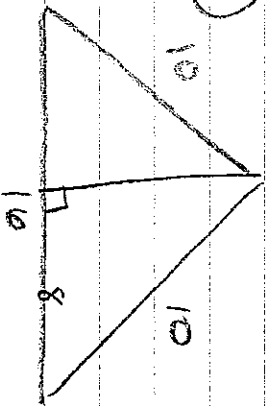
5



~~$\frac{1}{2}(8)(10)$~~

$$\frac{1}{2}(8)(4\sqrt{3}) = 16\sqrt{3}$$

6



$$8^2 + h^2 = 10^2$$

$$h^2 = 36$$

$$h = 6$$

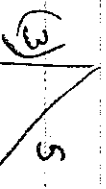
$$\frac{1}{2}(6)(8)$$

8

$$8 \cdot 4 = 32$$

$$\frac{1}{2}(3)(8) = 12$$

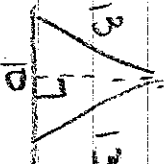
44



$$4^2 + h^2 = 5^2$$

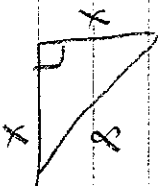
$$h = 3$$

10



$$36 - 10 = 26 \div 2$$

11



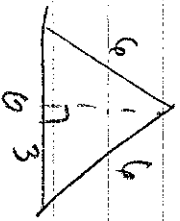
$$2x^2 = 64$$

$$x = \sqrt{32} = 4\sqrt{2}$$

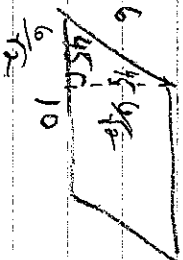
$$\frac{1}{2}(4\sqrt{2})^2$$

16

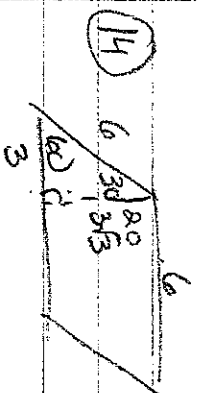
12



13

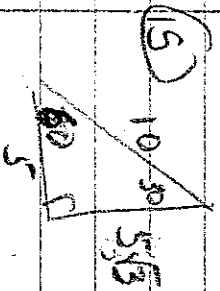


$$10 \left(\frac{6}{\sqrt{5}} \right) = \frac{60}{\sqrt{5}} = 30\sqrt{2}$$



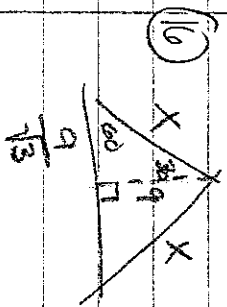
(14)

$$6(3\sqrt{3}) = 18\sqrt{3}$$



(15)

$$\frac{1}{2}(5)(5\sqrt{3}) = \frac{25\sqrt{3}}{2}$$

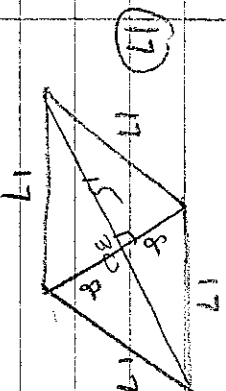


(16)

$$\frac{9}{18} \cdot 2 = \frac{18}{18}$$

$$\frac{1}{2}(9)\left(\frac{18}{\sqrt{3}}\right) = \frac{81}{\sqrt{3}} = \frac{81\sqrt{3}}{3}$$

$$\frac{1}{2}(6\sqrt{3})(9) = \boxed{27\sqrt{3}}$$



(17)

$$68 \div 4 = 17$$

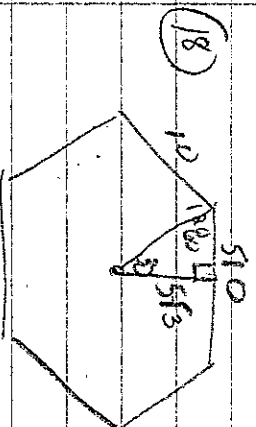
$$15^2 + x^2 = 17^2$$

$$x = 8$$

$$d_1 = 30$$

$$d_2 = 16$$

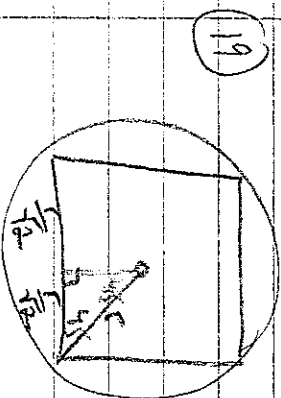
$$A = 240$$



(18)

$$\frac{1}{2}(5)(5\sqrt{3}) = \frac{25\sqrt{3}}{2}$$

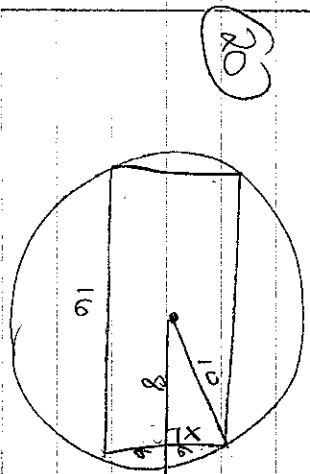
$$\frac{150\sqrt{3}}{2}$$



(19)

$$\frac{2\sqrt{2}}{2} = \frac{2(\sqrt{2})}{2} = (\sqrt{2} = 2)$$

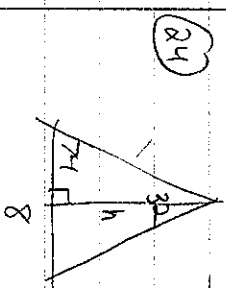
$$A = (\sqrt{2})^2 = \boxed{2}$$



$$8^2 + x^2 = 10^2$$

$$x = 6$$

$$16 \cdot 12 = 192$$

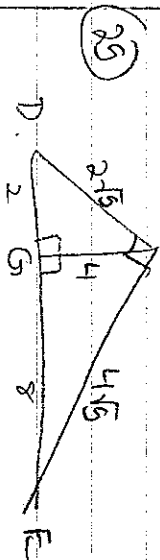


$$\tan x = \frac{h}{4}$$

$$11.39 = h$$

$$\frac{1}{2} (13.9)(8)$$

$$55.8$$



$$\triangle FED \sim \triangle GEF \sim \triangle GFD$$

$$\frac{2}{FG} = \frac{FG}{8}$$

$$\frac{8}{FE} = \frac{FE}{10}$$

$$\frac{18}{DF} = \frac{DF}{10}$$

$$FG = 4$$

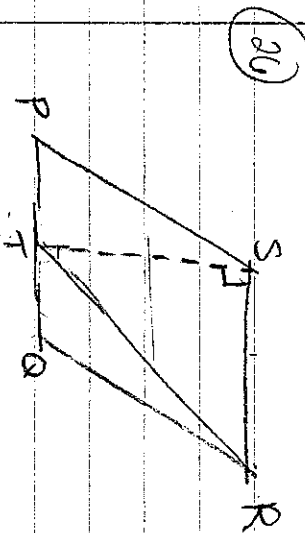
$$FE = \sqrt{100} = 10$$

$$DF = \sqrt{180} = 2\sqrt{5}$$

$$A_{FEO} = \frac{1}{2} (4\sqrt{5})(2\sqrt{5}) = 20$$

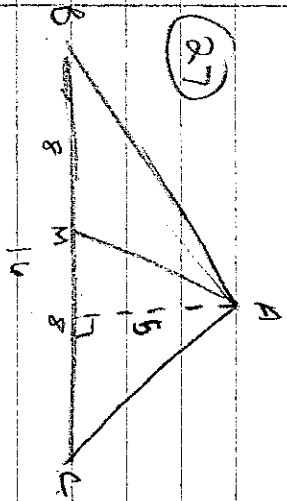
$$A_{GEF} = \frac{1}{2} (8)(4) = 16$$

$$A_{GFD} = \frac{1}{2} (4)(2) = 4$$



$$A = RS \cdot ST = 36$$

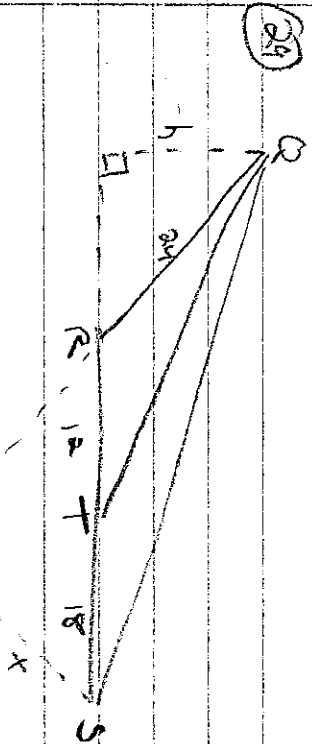
$$A_{RST} = \frac{1}{2} RS \cdot ST = 18$$



(27)

$$A_{\triangle ABC} = \frac{1}{2}(14)(5) = 40$$

$$A_{\triangle AMN} = \frac{1}{2}(8)(5) = 20$$



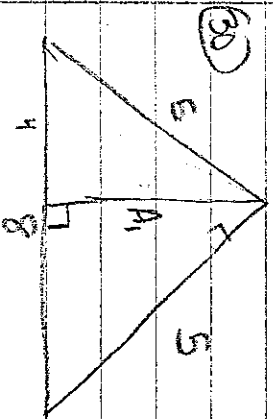
(28)

a) $\frac{24}{18h} = \boxed{\frac{2}{3}}$

b) $240 = \frac{1}{2}(24)x$

$$240 = 12x$$

$$20 = x$$



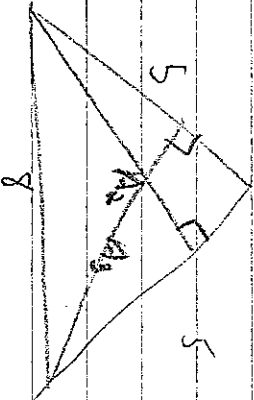
(30)

$$4^2 + x^2 = 5^2$$

$$A = \frac{1}{2}(8 \cdot 3) = \boxed{12}$$

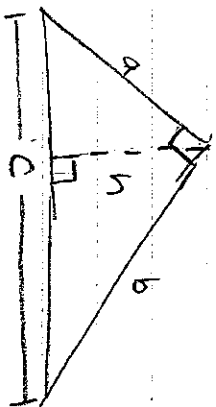
$$x = 3$$

$$A = 3$$

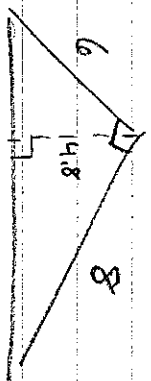


$$12 = \frac{1}{2}(5)(A_2)$$

$$\frac{24}{5} = A_2 = 4.8 = A_3$$



a) $A = \frac{1}{2} ab$
 b) $A = \frac{1}{2} hc$
 c) $\frac{1}{2} ab = \frac{1}{2} hc$
 $\frac{ab}{c} = h$

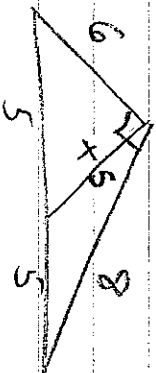


d) $6^2 + 8^2 = c^2$
 $10 = c$

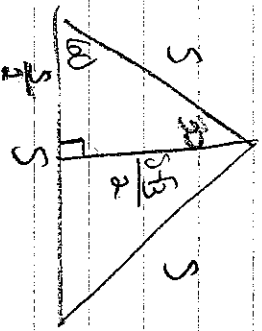
$A = 24 \rightarrow 24 = \frac{1}{2} h \cdot 10$

$\frac{24}{5} = h = \boxed{4.8}$

Median = 5 (medians of hyp. of rt. Δ)



33) $A = \frac{1}{2} (s)(\frac{s\sqrt{3}}{2})$



a) $A = \frac{s^2\sqrt{3}}{4}$

b) $A = \frac{7^2\sqrt{3}}{4} = \frac{49\sqrt{3}}{4}$

35) $\frac{1}{2} d(d) = 100$

$d^2 = 100$

$d = 10$

$d_1 = 10$

$d_2 = 20$

36) $210 = \frac{1}{2} a(1+a)$

$420 = a + a^2$

$a^2 + a - 420 = 0$

$(a+21)(a-20) = 0$

$a = 20$

10

11