Recolum
$$S = 5$$
 $S = 5$
 $S = 10$
 $S = 10$

$$5i'n0 = \frac{12}{13}$$
 $coso = -\frac{5}{11}$ $tano = -\frac{12}{5}$
 $cosco = \frac{12}{12}$ $seco = -\frac{12}{5}$ $colo = -\frac{5}{12}$

Find missing sides
$$B = 30^{\circ} \quad \alpha = 60. \quad b = 20$$

$$\frac{5101 A}{\alpha} = \frac{5111 B}{b}$$

$$5141 = \frac{60 \sin 30^{\circ}}{20}$$

$$= 3(\frac{1}{2}) > 1$$

$$\therefore No triangle ($$

and Area?
$$a=3$$
 $b=2$ $C=60^{\circ}$
 $Area = \frac{1}{2}$ $ab \sin C$

$$= \frac{1}{2}(3)(2) \sin 60^{\circ}$$

$$= 3 \frac{\sqrt{3}}{2} \text{ unit}^{2}$$

Side a:
$$A = 60^{\circ}$$
 $b = 10$ $c = 20$

$$a = \sqrt{b^{2} + c^{2}} = 2bc \cos A$$

$$= \sqrt{100 + 400} - 2(10)(20) \cos 60^{\circ}$$

$$= \sqrt{500} - 400(2)$$

$$= \sqrt{300}$$

$$= 10 \sqrt{3}$$

$$= 10 \sqrt{3}$$

$$\sqrt{x00000} = 100 \sqrt{x0}$$
 $3/x00000 = 103/x00$

$$C = 45^{\circ} \qquad r = 14$$

$$C = 45^{\circ} = \frac{14}{144x} = \frac{\sqrt{2}}{2}$$

$$1 + 14 = \frac{14(2)}{\sqrt{2}}$$

$$X = \frac{25}{\sqrt{2}} - 14$$

14 (2 · 1 - 1)

14 (12-1)

$$C = 60^{\circ} \quad \Lambda = 12$$

$$C = 60^{\circ} = \frac{12}{x+12} = \frac{1}{2}$$

$$24 = x+12$$

$$x = 12$$

$$h = \frac{200 \tan 45^{\circ} (\tan 30^{\circ})}{\tan 45^{\circ} - \tan 30^{\circ}}$$

$$= \frac{200(1) \sqrt{3}}{-1 - \sqrt{3}} = \frac{200}{\sqrt{3}}$$

$$= \frac{200}{\sqrt{3}} - 1$$

fr42 tan 4.962 = 196.8 d= 2(196.8) tan 4.962° = 393.6 Fan 4.962° 41 Fan 300 = 20 = 1 d= 2013 in 512 450 = h = 1/2 h = 50/2: = 25 /2 $\cos 60^\circ = \frac{x}{6} = \frac{11}{2}$

X=31 6

