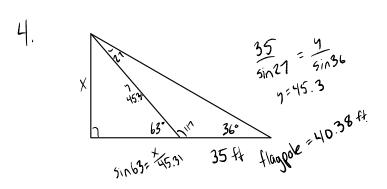
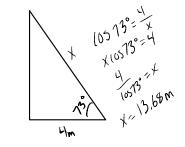
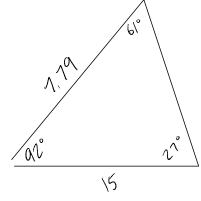


7.







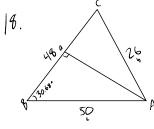
$$\sqrt{38.5(36.5-12)(36.5-25)(36.5-30)}$$
  
269.99 -> 270 units<sup>2</sup>

Щ.

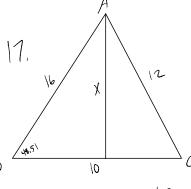


$$\frac{31.3}{\sin(61.5)} = \frac{5}{\sin 51.2}$$

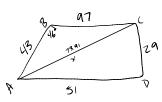
Ara: 1/2 (27.76)(31.3) sin 67.3 area= 400.79 => 401 units2



11.



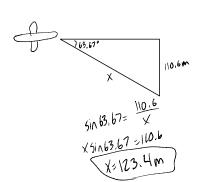
20



x2 = 432+972-2(43)(97)(05416° 1= 13,91

Area = 540,06 Area= 1500,07

23.



Applications of Vectors WS

7. 200

<20(05|80, 205in|807) <-20, 0 <99,71, -328,897  $\sqrt{99,71^2 + (-328,89)^2}$ 

343.67 mph  $\tan \alpha = \frac{326.99}{99.71}$  $\alpha = -73.13^{\circ} = 163.13 \text{ bearing}$  tm 20: 7300

## Unit 4 Formulas

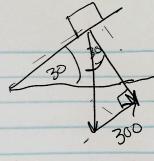
$$A = \sqrt{s(s-a)(s-b)(s-c)}$$

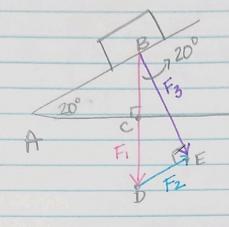
$$|V| = \sqrt{a_1^2 + b_1^2}$$

$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

$$a^2 = b^2 + c^2 - 2bc \cos A$$

Finding the weight of a Piano





3 Forces:

Fi -> force of gravity area weight

F2 -> force to move plano = 300

F3 > force of piano against ramp

ΔABC is similar to ΔBDE => \$ EBD=20° \* both are right Δs\*

Using A BDE

