

Area of a Triongle Nor Area = 1 a b sin C - 1 ac sins = 1 6c pin A Ex DArea? a=30 C=42 B=55°10' Area = 1 ac sin & = 1 (3d) (42/ sin (554 10) ~ 5-86 fta 11 b = 4 C = 1 A = 120° Area = 1 6 c suiA = 1 (d) (i) sin 120° = 2 (B) = 13 cenital

law of Cosines! (b-c)a = 6 7c 2 26c cos A 62+C-26C a = 1 62 + c2 - 26 C cos A b = /a2+c2-2ac coss C=/a2+62-2a6 COSC Ex A=60° b=2012 C=3012 a? a= 1/62+c2-26c CosA = / 400 +900 - 2 (20) (30) (30) (30)  $= / (300 - 1200(\frac{1}{2}))$ = 1700' = 10 /7 11 Ex b=AC=259m BC=423m=a ACB = 132°+d0'=C C= /(259) 2+ (423) -2 (259) (423) (324 1/3) ~ 628 m(

3 sides: 
$$\Rightarrow$$
 mussing 3 angles?

 $CosA = \frac{b^2 + C^2 - a^2}{26C}$ 
 $A = Cos^{-1} \left( \frac{b^2 + C^2 - a^2}{2aC} \right)$ 
 $Cos^{-1} \left( \frac{a^2 + 5c^2 - b^2}{2aC} \right)$ 
 $Cos^{-1} \left( \frac{b^2 + C^2 - a^2}{2aC} \right)$ 
 $Cos^{-1} \left( \frac{b^2 + C^2 - a^2}{2aC} \right)$ 
 $Cos^{-1} \left( \frac{2o^2 + 15^2 - 3a^2}{2(2o)(18)} \right)$ 
 $Cos^{-1} \left( \frac{2o^2 +$ 

$$A = \frac{3}{4} = \frac{3}{4} = \frac{3}{4} = \frac{3}{4} = \frac{2}{4}$$

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1 750 C = 180° 30° - 120°
= 30° ( A 1 400 B b = 400 sin 1200 sin 300 400 13 = 400 /3 ? 75 (40)  $\frac{7}{7}\left(\frac{75}{\sqrt{3}}\right)$ 1600 - 1875 te will not make a = 90° - 28° = 62° J = 150° - 62° = 118° J e= 162+102-2(6)(10) cos/180 = /136 - 120 cm 1180 (



