I RIGONOME TRY Radians Rd Degres > 180 - DC = Tt · 4 TL 180 4 length (l) $l = 2\pi \frac{4^{\circ}}{360}$ r l = 0 $\rightarrow 2\pi \frac{2}{2\pi}$ r $r^{2}0$ $\rightarrow \pi r^{2}$ r r^{2} TRIangles $\frac{\sin(\hat{A})}{\alpha} = \frac{\sin(\hat{B})}{\alpha} = \frac{\sin(\hat{C})}{\alpha}$ sine evee cosine Rule cos (Ĉ) = a2+b2 -c2 2ab Area = 1 ab sin(c) Bearings · They are angles measured ceachwise from north · They are given in 3 figures: 30° > 030 Remember

General notes

- · Angles are measured anticeockaise
- · coleumi has anales are those that share a side
 - 6 7 360+G 6-360

SO CATO

only right angle triangles

120

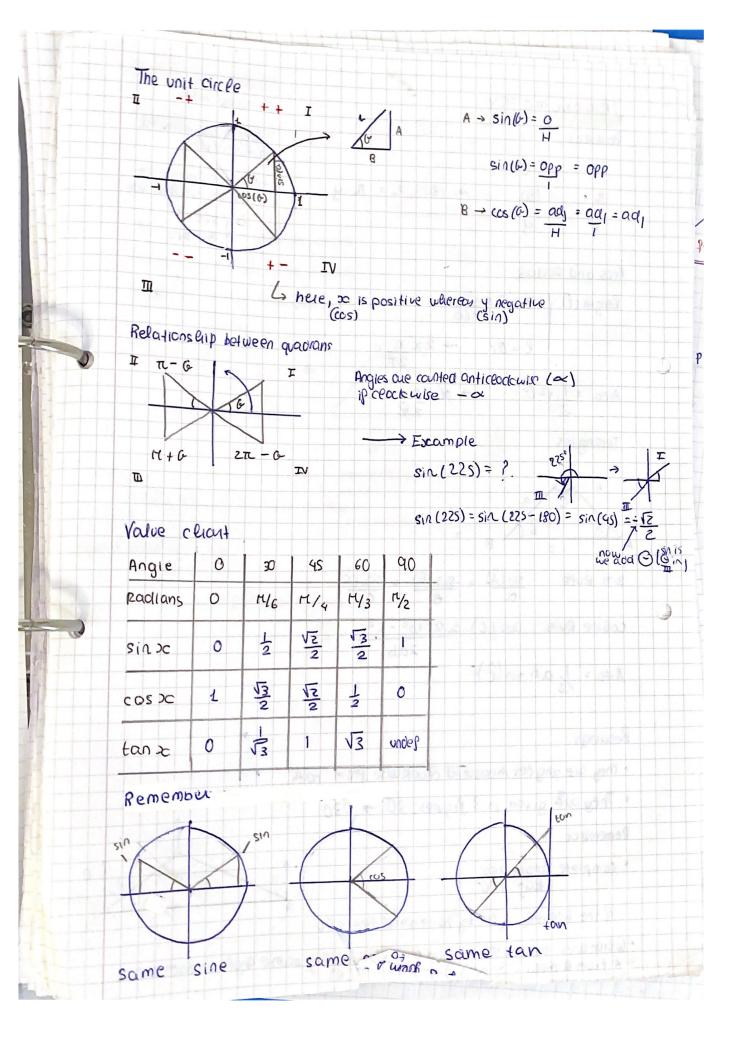
270

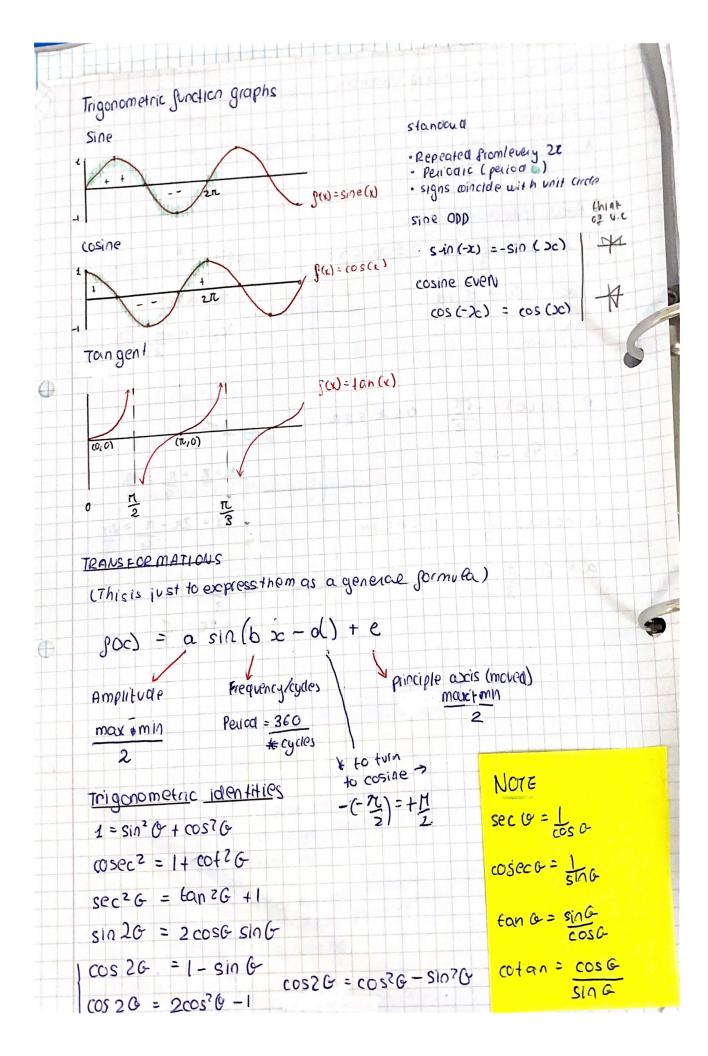
any triangle

· Complete angle 360 taup 190

if the bearing is cut by horizontal eine > 90

· When lines are extended if cut again by hearing same angle on both sides . A from B means angle of p





solving trigonometric equations Escample A $\sin(x) = \sqrt{3}$ (a) Because of the clear, we know sin (60) = \frac{2}{3} sin is Oso II 0 5 DC 521 $\alpha = 60 \rightarrow H \text{ rd}.$ of reference (to Birst quad) $8 \sin(\infty) = -\sqrt{2}$ SINE NE 062 622 a = 45 → 11 $x_2 = 2\pi - \pi = 7\pi = 4\pi$ $c = cos(x) = \frac{1}{2}$ 0 Ex 62K $\alpha = 60, \pi$ x = 22 - 13 dec I Finstead of x we lave something electhe domain also cerangs H CX CM 4 CZX CZN oucsine ouctan I or IV ancos IqI