

Ex 10A (p. 207)

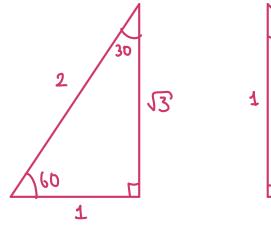
4 Express as acrete L trig ratios:

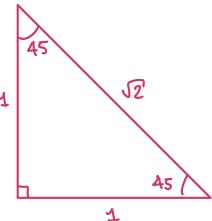
b) sin (-80) = - sin 80

f) cos (110) = - cos (180-110)

=-cos 70

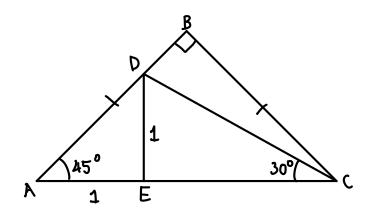
use the rules above about graphs or the CAST thingy





use these triangles to figure out trigonometric ratios without a calculator!

EX 10B Challenge (p.209)



$$ii)|pc| = 2$$

iv)
$$|DB| = 2 \sin 5$$

= $\frac{16 - 12}{2}$

ARCSIN? ARCCOS? ARCTAN?

arctano = Arctano = tan'o

arcsino = Arcsino = sin'o

They just "undo" a trigonometric function

e.g. sin30 = 1/2, arcsin(1/2) = Arcsin(1/2) = sin-1(1/2) = 30

if the question specifies 0 = 0 = 360, you HAVE to list all possibilities

therefore, $\sin^{-1}(1/2) = 30$, 150 Since $\frac{5|A|}{7|C|}$ write 0 and 180-0 (quadrants 1,2)

But wait, there's MORE! e.g. $\cos(3\theta) = 0.766$ (0 \le 0 \le 360) \ \text{multiply} \\ \cos \times = 0.766 \quad (0 \le \times \le 1080) \) \ \text{range} X=cos-1(0.766) X = 40,320,400,680,760,10400=13.3, 107, 133, 227, 253, 347 All possible answers!