

12/03/2018

E3

① Composition w/ inverse $f(x)$

$$\theta = \cos^{-1}(-1/2) \rightarrow \text{restrictions on } \theta?$$

② Inverse function. Domain/Range.

Swap $x \leftrightarrow y$ swap

③ Establish the identity one side only.

④ Difference formula

examine quadrants, rotations, Δs .

⑤ Quadratic in form

$$ax^2 + bx + c = 0$$

$$\left(\quad \right) \left(\quad \right) = 0$$


solve two parts

⑥ SAS } Law of cosines
SSS }

SSA } Law of sines.
ASA }

look at given information Draw a picture.

2 Area formulas: Use $S = \frac{1}{2}(a+b+c)$
for 483.

 30° 60° 45° 90° . . .
angles you can simplify

⑦ $P \rightarrow R$
 $(r, \theta) \rightarrow (x, y)$

$$x = r \cos \theta$$

$$y = r \sin \theta$$

plot point

⑧ $R \rightarrow P$ (r, θ)
 $x^2 + y^2 = r^2$ $(r, \theta + 2\pi)$
 $\theta = \tan^{-1}\left(\frac{y}{x}\right)$ $(-r, \theta + \pi)$