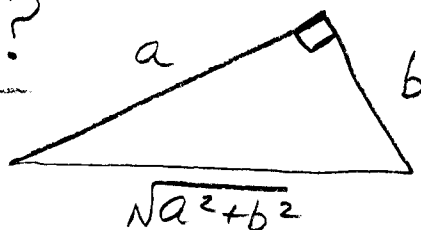


BE-Alg. 2 Friday 2-5-10

ACT Practice:

① In the right Δ , $0 < b < a$. What is the $\cos [\tan^{-1}(\frac{a}{b})]$?

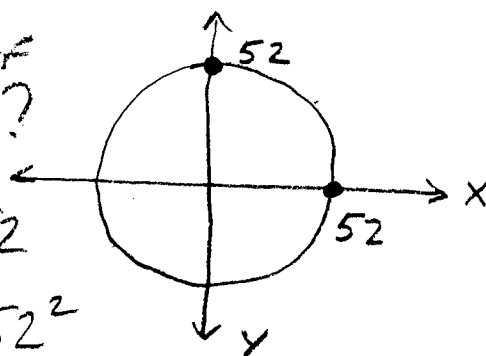


Ⓐ $\frac{a}{b}$ Ⓑ $\frac{b}{a}$

Ⓒ $\frac{a}{\sqrt{a^2+b^2}}$ Ⓓ $\frac{b}{\sqrt{a^2+b^2}}$

Ⓔ $\frac{\sqrt{a^2+b^2}}{a}$

② What is the equation of the circle shown at right?



Ⓐ $x+y=52$ Ⓑ $(x+y)^2=52$

Ⓒ $(x+y)^2=52$ Ⓓ $(x+y)^2=52^2$

Ⓔ $x^2+y^2=52$ Ⓕ $x^2+y^2=52^2$

③ What is the area of the circle in #2?

ANS ~~~~~~~~~

① The angle whose tangent is $\frac{a}{b}$ is angle A.
 $\cos A = \frac{b}{\sqrt{a^2+b^2}}$

② $x^2+y^2=52^2$
 $\uparrow$
 r^2

③ $A = \pi r^2$
 $= 3.14(52)^2$
 $= 8491 \text{ UNITS}^2$

• Return / review GRADED EXAM 1.

Simplifying Trig. Expressions

EX

(A) $\cos \theta \csc \theta$

(B) $2(\csc^2 \theta - \cot^2 \theta)$

(C) $\frac{\sin \theta \csc \theta}{\cot \theta}$

Ans

(A) $\cot \theta$

(B) 2

(C) $\tan \theta$