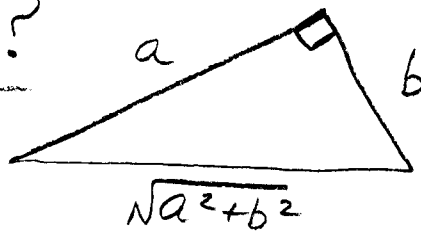


BE-Alg. 2 WEDNESDAY 2-9-11

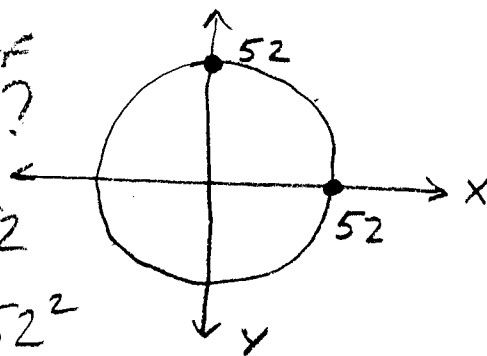
ACT Practice:

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?



- Ⓐ $x+y=52$ Ⓑ $(x+y)^2=52$
 Ⓒ $(x+y)^2=52^2$ Ⓓ $(x+y)^2=52$
 Ⓔ $x^2+y^2=52$ Ⓕ $x^2+y^2=52^2$

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

~~ANS~~

<p>① The angle whose tangent is $\frac{a}{b}$ is angle A. $\cos A = \frac{b}{\sqrt{a^2+b^2}}$</p>	<p>② $x^2+y^2=52^2$ r^2</p>	<p>③ $A = \pi r^2$ $= 3.14(52)^2$ $= 8491 \text{ UNITS}^2$</p>
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Simplifying Trig. Expressions

EX

(A) $\cos \theta \tan \theta$

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

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

Ans

(A)

$\sin \theta$

(B)

2

(C)

$\tan \theta$