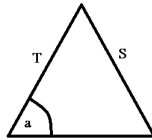# Quiz 9

Jon Beardsley

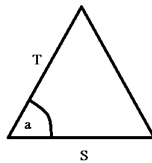## November 10, 2014

Question 1 *For $S = 1$, $T = 2$, $a = 3$, how many triangles are there in the following configuration?*

A 0.

B 1.

C 2.

D 3.

Question 2 *For $S = 1$, $T = 2$, $a = \frac{\pi}{3}$, what is the area of the following triangle?*

A $\frac{\sqrt{3}}{2}$.

B 2.

C $\frac{1}{2}$.

D $\frac{\sqrt{2}}{2}$.

Question 3 *Describe all the values of x for which it is true that $\cos(x) = 0$.*

A $\frac{k\pi}{2}$ *for k an odd integer.*

B $\frac{k\pi}{2}$ *for k an even integer.*

C $\frac{k\pi}{2}$ *for k an integer.*

D $k\pi$ *for k an integer.*

Question 4 *Solve the equation $|\tan(x)| = 1$ for all possible values of x.*

A $\frac{k\pi}{4}$ *for odd k.*

B $\frac{k\pi}{4}$ *for even k.*

C *No solutions.*

D π.