What's Going On?

Checking In

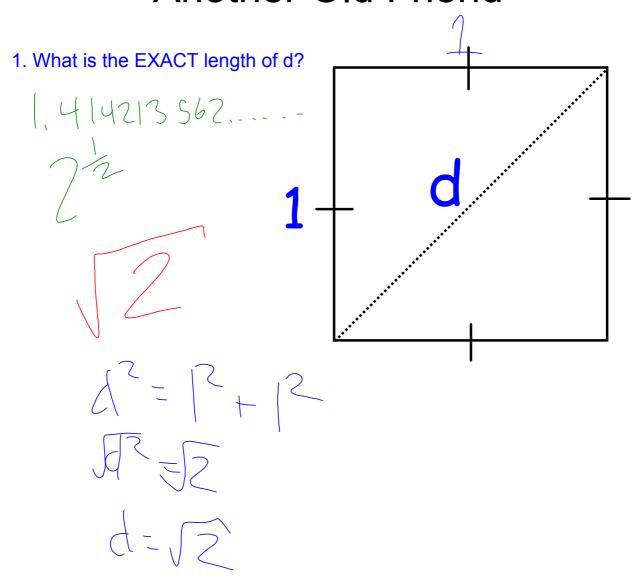
Minds on Another old friend :)

Action! Some new friends!

Consolidation Using your friends.

Learning Goal - I will know the trig ratios of our special angles and be able to apply operations to them.

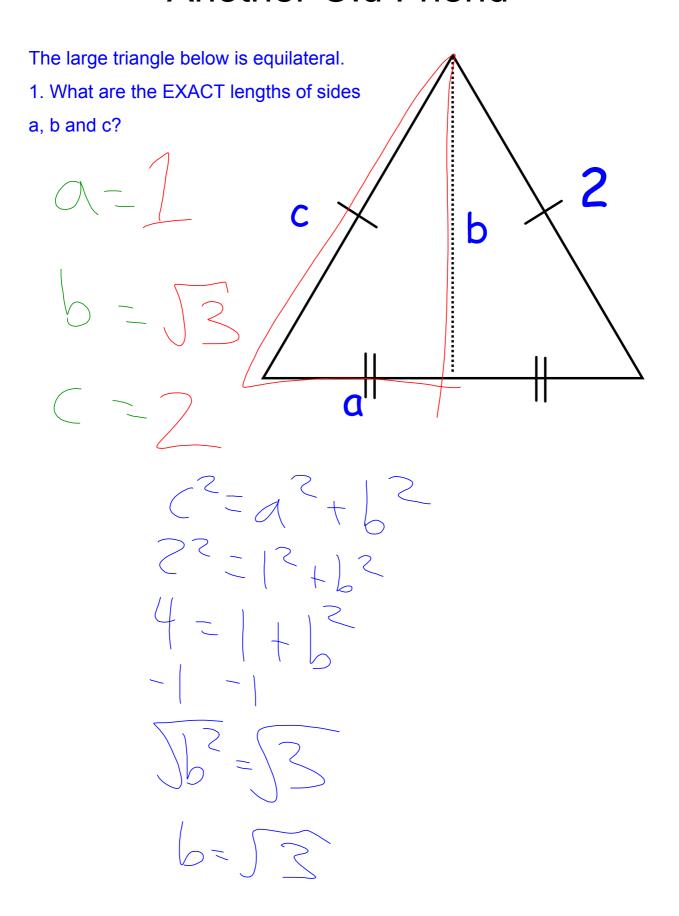
Another Old Friend



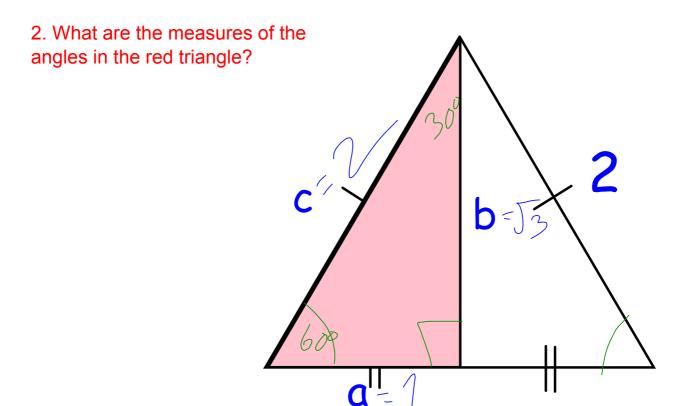
Another Old Friend

2. What are the measures of the angles in the red triangle?

Another Old Friend



Another Old Friend



The Special Triangles

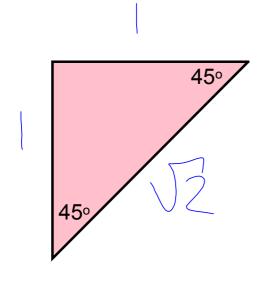
1 450 52

1 450 52

1 450 500

Action!

Some New Friends

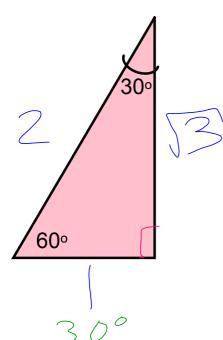


What are the <u>6</u> trigonometric ratios for a 45 degree angle?

$$\sin 45^{\circ} = \frac{1}{12}$$
 $\csc 45^{\circ} = 52$
 $\cos 45^{\circ} = \frac{1}{12}$ $\sec 45^{\circ} = 52$
 $\tan 45^{\circ} = \frac{1}{12}$ $\cot 45^{\circ} = 1$

Action!

Some New Friends

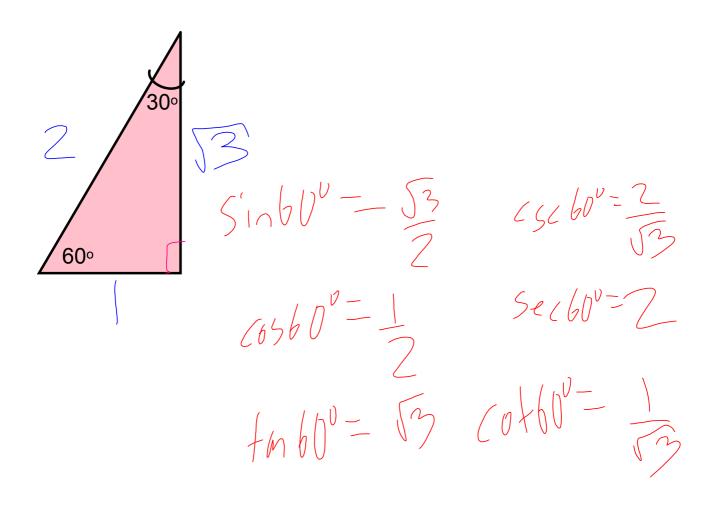


What are the **6** trigonometric ratios for a 30 degree and a 60 degree angle?

$$\frac{30^{\circ}}{5^{\circ}}$$

$$5^{\circ}$$

$$\frac{30^{\circ}}{2}$$



Consolidation

Using your friends

Determine the exact value of:

$$(\sin 45^\circ)(\cos 45^\circ) + (\sin 30^\circ)(\sin 60^\circ)$$