Section 4.1. Into to Trig

review of triangles:

8:59 AM



for all triangles, the sum of the angles is 180°

in a right trangle, one angle is 90°, so the sim of the other two angles is 90°

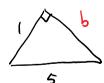
(other two angles are complementary)

Pythagoren theorem:



calculate the remaining side for the following triangles





a + b2 = c2

$$a^{2} = c^{2} - b^{2}$$

$$= 13^{2} - 5^{2}$$

$$= 169 - 25$$

$$= 149$$

$$a = 12$$

$$b^{2} = c^{3} - a^{3}$$

$$= S^{2} - 1^{3}$$

$$= 24$$

= 4.899 \( \) decimal approx
randed to
3 places