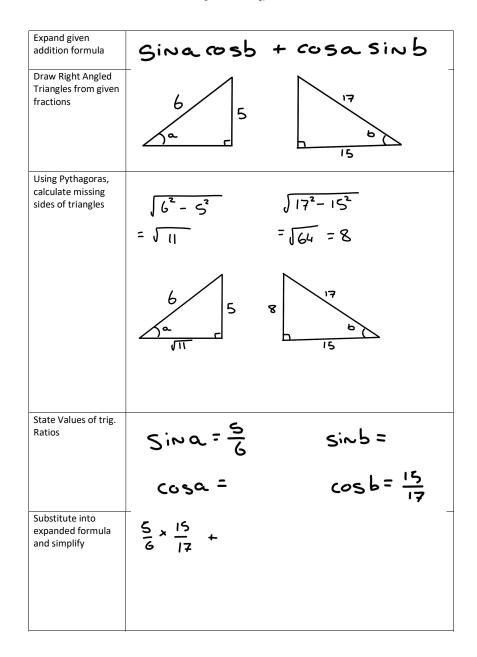
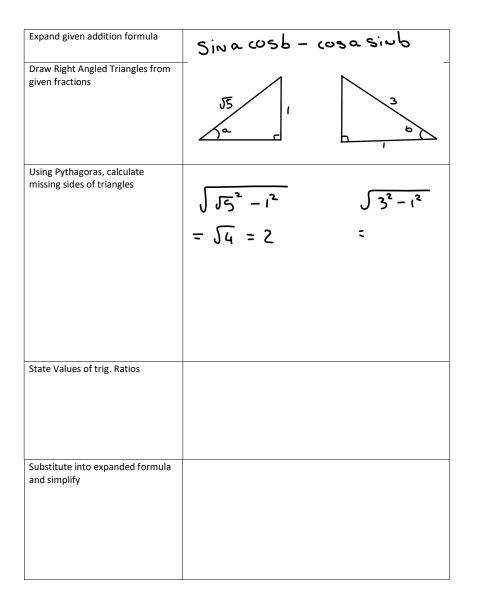
Expand given addition formula	cosacosb - sina sinb
Draw Right Angled Triangles from given fractions	5 3 5 5 5 5 5
Using Pythagoras, calculate missing sides of triangles	$\sqrt{5^{2} - 3^{2}} \qquad \sqrt{13^{2} - 5^{2}} = \sqrt{16} = 4 \qquad = \sqrt{144} = 12$
	5 3 12455
State Values of trig. Ratios	Siza=5 Sinh= 12
	$\cos a = \frac{4}{5}$ $\cosh = \frac{5}{13}$
Substitute into expanded formula and simplify	$\frac{4}{5} \times \frac{5}{5} - \frac{3}{5} \times \frac{12}{3}$
	$= \frac{20}{65} - \frac{36}{65}$
	$\frac{-16}{35}$

Find the exact value of sin(a + b), if sina = $\frac{5}{6}$ and cosb = $\frac{15}{17}$



Find the exact value of sin(a - b), if sina = $\frac{1}{\sqrt{5}}$ and cosb = $\frac{1}{3}$



Find the exact value of cos(a - b), if sina = $\frac{2}{\sqrt{13}}$ and cosb = $\frac{4}{5}$

Expand given addition formula	
Draw Right Angled Triangles from	
Draw Right Angled Hangles Hom	
given fractions	
Using Pythagoras, calculate missing	
sides of triangles	
sides of thangles	
State Values of trig. Ratios	
Substitute into expanded formula	
and simplify	