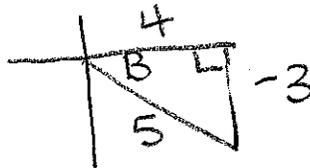
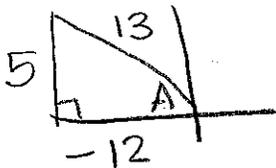


Warmup 10:

$$\sin A = \frac{5}{13}$$

Find the exact value  $\cos(B+A)$  if

$$\csc A = \frac{13}{5}, \frac{\pi}{2} < A < \pi \text{ and } \tan B = -\frac{3}{4}, \frac{3\pi}{2} < B < 2\pi$$



$$\cos(B+A) = \cos B \cos A - \sin B \sin A$$

$$\frac{4}{5} \cdot \frac{-12}{13} - \frac{-3}{5} \cdot \frac{5}{13}$$

$$\frac{-48}{65} + \frac{15}{65} = \boxed{\frac{-33}{65}}$$