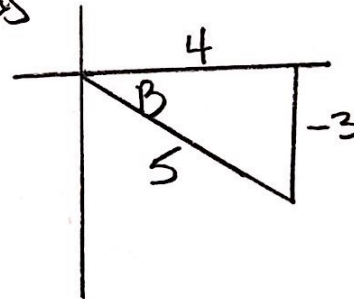
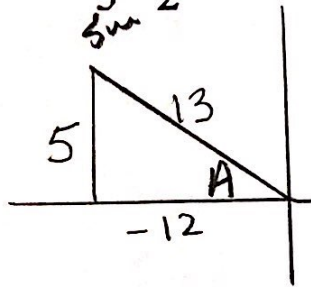


Warmup 10: Find the exact value $\cos(B+A)$ if

$$\csc A = \frac{13^{\text{hyp}}}{5^{\text{sin}}}, \frac{\pi}{2} < A < \pi \quad \text{Q2} \quad \text{and} \quad \tan B = \frac{4^{\text{adj}}}{-3^{\text{opp}}}, \frac{3\pi}{2} < B < 2\pi \quad \text{Q4}$$



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

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

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

$$= \boxed{\frac{-33}{65}}$$