

9.6.

$$A(-1; 2), B(1; 1), C(3, 2).$$

$$\overrightarrow{AB} = (-1; 2)$$

$$\overrightarrow{AC} = (-3; 4)$$

$$\cos \alpha = \frac{\overrightarrow{AB} \cdot \overrightarrow{AC}}{|\overrightarrow{AB}| \cdot |\overrightarrow{AC}|} = \frac{2\sqrt{5}}{5}$$

9.7.

$$A(4; 2; 2), B(1; -1; 0), C(3; 2; 4)$$

$$\cos \angle A = \frac{\overrightarrow{AB} \cdot \overrightarrow{AC}}{|\overrightarrow{AB}| \cdot |\overrightarrow{AC}|}$$

$$\overrightarrow{AB}(-3; -3; -2) \quad \overrightarrow{AC}(-1; 0; 2)$$

$$\cos \angle A = \frac{1}{\sqrt{5}} = \frac{\sqrt{5}}{5}$$