



$$a \cdot b = |a| \cdot |b| \cdot \cos\theta$$

□□

|a| □□ a □□□□

|b| □□ b □□

θ □□□□□□ 0° □ 180°

□□

□□ a ⊥ b □□□□ → θ = 90° → cosθ = 0 → □□ = 0

□□ a □ b □□ → θ = 0° → cosθ = 1 → □□ = |a||b|

□□ a □ b □□ → θ = 180° → cosθ = -1 → □□ = -|a||b|



□□□	□□□	□□□	□□
□□□	= a b	□□□ □ θ = 0°	□□□□□□□□ cosθ = 1
□□	> 0	□□ < 90° □□□	□□ “□□□□” □□□□□□□□
□	= 0	□□ □ θ = 90°	□□□□□□□□
□□	< 0	□□ > 90° □□□	□□ “□□□□” □□□□□□□□□□
□□□	= - a b	□□□ □ θ = 180°	cosθ = -1

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