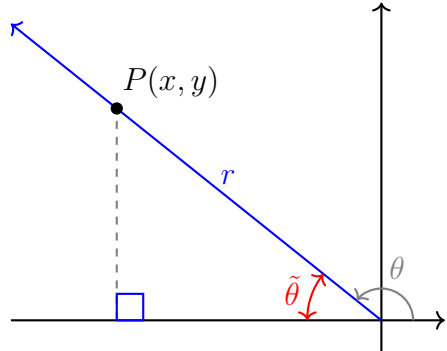
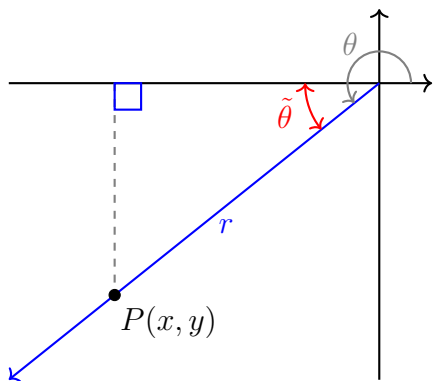


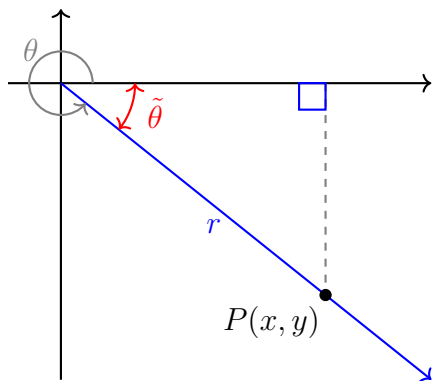
First-quadrant:  $\tilde{\theta} = \theta$



Second-quadrant:  $\tilde{\theta} = \pi - \theta$



Third-quadrant:  $\tilde{\theta} = \theta - \pi$



Fourth-quadrant:  $\tilde{\theta} = 2\pi - \theta$