Question

Choose the point on the terminal side of -45°.

(-3, -3)
(4, -4)
(5, 5)
(-2, 2)

Solution

If a point is on the terminal side of -45° then this means that

$x = t \cdot \cos(-45^o), \quad y = t \cdot \sin(-45^o), t > 0;$

$\cos(-45^o) = \frac{\sqrt{2}}{2} > 0, \sin(-45^o) = -\frac{\sqrt{2}}{2} < 0;$

$x > 0, y < 0;$ Only point $(x, y) = (4, -4)$ has $x > 0$ and $y < 0.$

Answer: (4;-4).