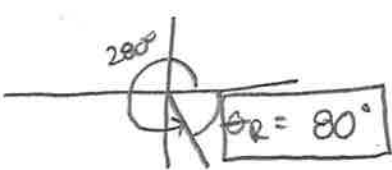## Section 7.1 – Final Exam Prep
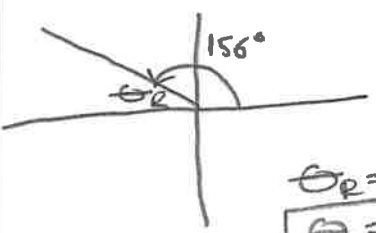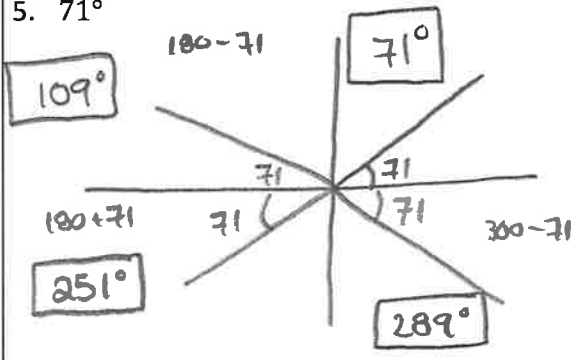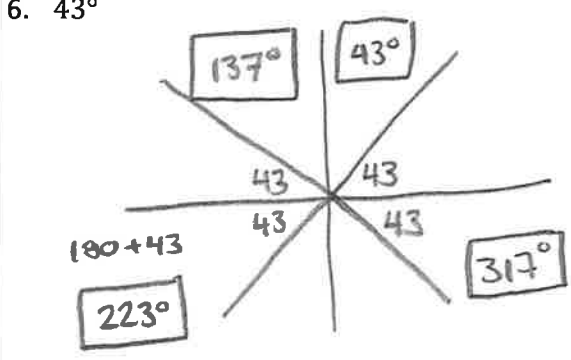
Determine the smallest positive co-terminal angle for the given angle.

1. 400°	2. −821°
$400 - 360 = \boxed{40°}$	$-821 + 360 = -461$ $-461 + 360 = -101$ $-101 + 360 = \boxed{259°}$

Find the reference angle for the following

3. 1000°	4. −204°
$1000 = 360(2.\overline{8})$ $1000 - 2 \cdot 360 = 280°$ $280°$ $\boxed{\theta_R = 80°}$	$-204 + 360 = 156$ $156°$ θ_R $\theta_R = 180 - 156$ $\boxed{\theta_R = 24°}$

Find all angles, $0° \leq \theta < 360°$, that have the given reference angle.

5. 71°	6. 43°
$180 - 71$ $\boxed{71°}$ $\boxed{109°}$ 71 71 $180 + 71$ 71 71 $360 - 71$ $\boxed{251°}$ $\boxed{289°}$	$\boxed{137°}$ $\boxed{43°}$ 43 43 $180 + 43$ 43 43 $\boxed{223°}$ $\boxed{317°}$