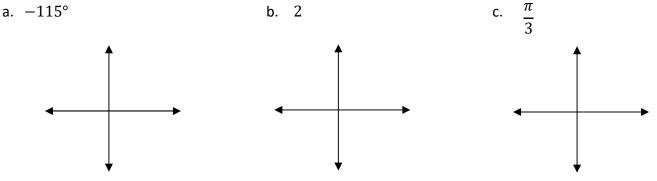
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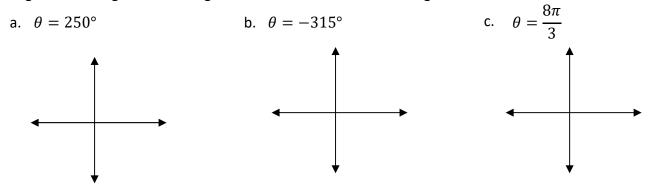
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Learning Goal 4.1	Examining angles in standard position in both radians and degrees. Exploring the unit circle, reference and coterminal
	angles and special angles.

- Convert to radians, leave your answer as an exact value.
  a. 30°
  b. 315°
- 2. Convert to radians, round your answer to the nearest hundredth.
- a. 123° b. 257°
- 3. Convert to degrees, round your answer to the nearest degree.
- a.  $\frac{3\pi}{2}$  b.  $\frac{4\pi}{5}$  c. 1.5
- 4. Draw each angle in standard position. Find the reference angle. Determine one positive and one negative co terminal angle.



5. Determine one positive and one negative co-terminal angle of the following angles. Illustrate each angle with a diagram. Write a general formula for coterminal angles in each case.



- 6. A circle has radius 8.2 cm. Calculate the length of an arc of this circle subtended by 125°. Express the length to the nearest tenth of a centimetre.
- Determine the central angle (in radians) that is subtended by a sector of area 3 cm<sup>2</sup> in a circle of radius 10 cm.