

# 8.2

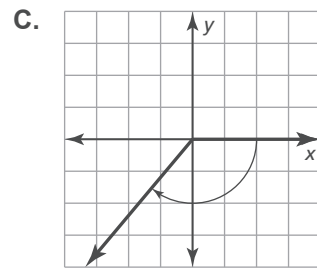
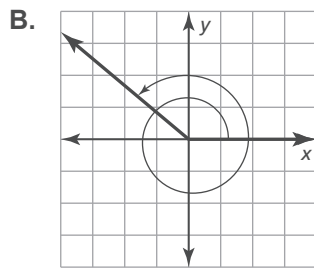
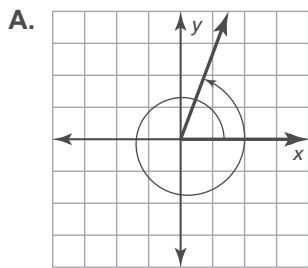
## Practice A

In Exercises 1–6, draw an angle with the given measure in standard position.

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|----------------|---------------------|----------------------|
| 1. $170^\circ$ | 2. $540^\circ$      | 3. $-80^\circ$       |
| 4. $5\pi$      | 5. $\frac{2\pi}{3}$ | 6. $-\frac{3\pi}{4}$ |

In Exercises 7–9, match the angle measure with the angle.

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|----------------|---------------------|-----------------|
| 7. $500^\circ$ | 8. $\frac{7\pi}{3}$ | 9. $-130^\circ$ |
|----------------|---------------------|-----------------|



In Exercises 10–12, find one positive angle and one negative angle that are coterminal with the given angle.

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|----------------|-----------------|----------------------|
| 10. $75^\circ$ | 11. $-40^\circ$ | 12. $\frac{7\pi}{3}$ |
|----------------|-----------------|----------------------|

In Exercises 13–18, convert the degree measure to radians or the radian measure to degrees.

- |                      |                      |                      |
|----------------------|----------------------|----------------------|
| 13. $225^\circ$      | 14. $50^\circ$       | 15. $-160^\circ$     |
| 16. $\frac{\pi}{12}$ | 17. $\frac{5\pi}{9}$ | 18. $-\frac{\pi}{8}$ |

19. You work every Saturday in the yard from 8:00 A.M. to 11:30 A.M. Draw a diagram that shows the rotation completed by the hour hand of a clock during this time. Find the measure of the angle generated by the hour hand in both degrees and radians. Compare this angle with the angle generated by the minute hand from 8:00 A.M. to 11:30 A.M.