

## Lesson 4.1: Angles in Standard Position

**Explore Your Understanding Assignment**

This assignment includes multiple choice and short answer questions. For multiple choice questions, select the best answer. Each is worth 1 mark. Marks assigned to short answer questions are indicated for each question. Be sure to show all necessary work.

Without measuring, match the angle in standard position with the sketch.

① \_\_\_\_\_ 1.  $175^\circ$

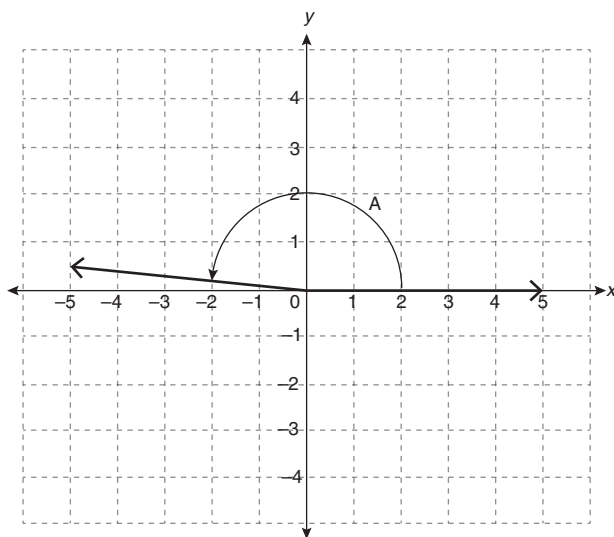
① \_\_\_\_\_ 2.  $25^\circ$

① \_\_\_\_\_ 3.  $75^\circ$

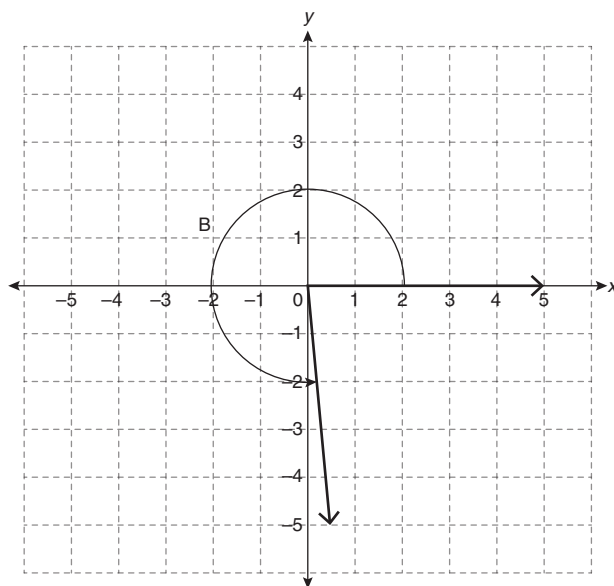
① \_\_\_\_\_ 4.  $225^\circ$

① \_\_\_\_\_ 5.  $275^\circ$

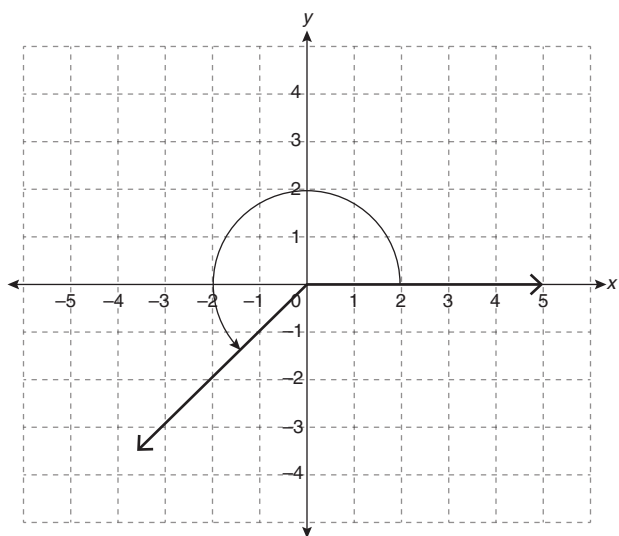
A.



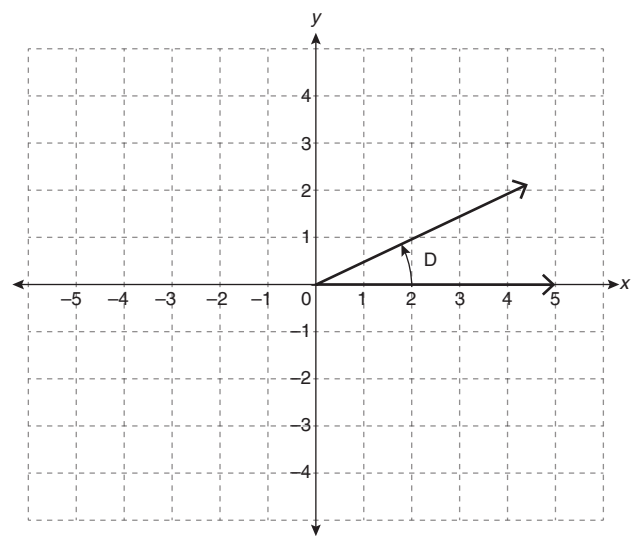
B.



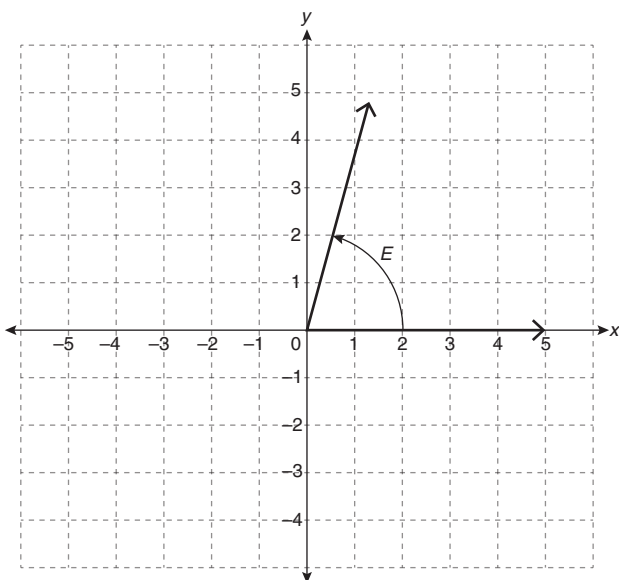
C.



D.



E.



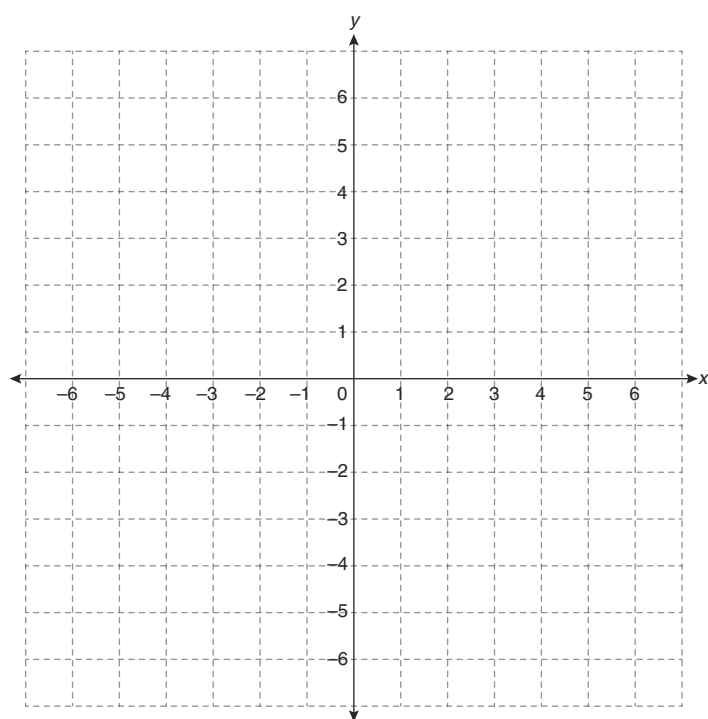
① \_\_\_\_\_ 6. The reference angle of  $188^\circ$  is

- A.  $8^\circ$
- B.  $12^\circ$
- C.  $98^\circ$
- D.  $188^\circ$

① \_\_\_\_\_ 7. The angle in standard position that does **not** have a reference angle of  $15^\circ$  is

- A.  $165^\circ$
- B.  $195^\circ$
- C.  $255^\circ$
- D.  $345^\circ$

② 8. The point  $(-2, 4)$  is on the terminal arm of an angle in standard position. Sketch the angle, along with three other angles in standard position with the same reference angle.



- ② 9. For the construction of a deck surrounding a bay window, Tricia must cut several boards at an angle of  $120^\circ$ . Setting up her mitre saw, she sets an angle of  $30^\circ$ . Will this cut the wood at the correct angle? If not, what angle should she use if her mitre saw can only be moved up to  $90^\circ$ ?

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You have completed *Lesson 4.1 Explore Your Understanding Assignment*. Please return to the *Module* and continue your exploration with *Lesson 4.2*.

