Bellwork Alg 2 Monday, March 25, 2015

Find both a positive and negative coterminal angle for each given angle.

1. $-975°$
POS: NEG:

2. $1352°$
POS: NEG:

Find the measure of an angle between $0°$ & $360°$ that is coterminal with the given angle.

3. $2946°$

4. -5401^0

In which quadrant or on which axis will you find the terminal side of each angle?

5. $-1040°$ 6. $975°$ 7. $2520°$ 8. $-3083°$ 9. $1710°$

Is each pair of angles coterminal?

10. $432°$ & $2448°$

11. $-832°$ & $3128°$

12. If the distance between the points (2,2) and (3, a) is 1, what is the value of a?

A) 1 B) 2 C) 3 D) 4 E) 5

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ANSWERS

Find both a positive and negative coterminal angle for each given angle.

1. $-975°$

POS: $105°$, $465°$, $825°$, ⋮

NEG: $-255°$, $-615°$, ⋮, $-1335°$, $-1695°$, ⋮

Some possible answers are given

2. $1352°$

POS: $272°$, $632°$, $992°$, ⋮, $1712°$, ⋮

NEG: $-88°$, $-448°$, $-808°$, ⋮

Find the measure of an angle between $0°$ & $360°$ that is coterminal with the given angle.

3. $2946°$ — $66°$

4. $-5401°$ — $359°$

In which quadrant or on which axis will you find the terminal side of each angle?

5. $-1040°$ — COTERMINAL WITH $40°$ — QUAD I

6. $975°$ — COTERMINAL WITH $255°$ — QUAD III

7. $2520°$ — COTERMINAL WITH $0° \div 360°$ — POS X-axis

8. $-3083°$ — COTERMINAL WITH $157°$ — QUAD II

9. $1710°$ — COTERMINAL WITH $270°$ — NEG y-axis

Is each pair of angles coterminal?

10. $432°$ & $2448°$

$2448° - 432° = 2016°$

NO

NOT A MULTIPLE OF $360°$

11. $-832°$ & $3128°$

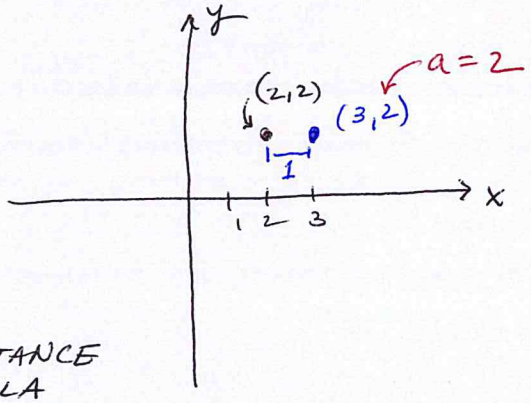
$3128 - -832 = 3960 \div 360 = 11$

Yes

they are 11 full turns away from each other

12. If the distance between the points (2,2) and (3, a) is 1, what is the value of a?

A) 1 B) 2 C) 3 D) 4 E) 5



OR USE THE DISTANCE FORMULA