Answer on Question #57926 - Math – Algebra

Condition. : Fill in the blank 42.54° is the same as 42° 32'____''

: 32° 15'66'' is the same as____ Round to the nearest hundredth of a degree

: 136° is the same as ____ radians. Round to the nearest hundredth of a radian.

: 6 radians is the same as____°

round to the nearest hundredth of a degree and use 3.14 for pi

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Solution.

$$1) 42.54° = 42° + (0.54 * 60)' = 42° + 32.4' = 42° + 32' + (0.4 * 60)'' = 42°32'24'';$$

$$2) 32°15'66'' = 32° + \left(\frac{15}{60}\right)° + \left(\frac{66}{3600}\right)° = 32° + \left(\frac{1}{4}\right)° + \left(\frac{11}{600}\right)° \approx 32.27°;$$

$$3) 136° = \left(\frac{136}{180}\right) \cdot 3.14 \approx 2.37;$$

$$4) 6 = 6 \cdot 180° = 1080°.$$

Answer. : Fill in the blank 42.54° is the same as 42° 32'__**24**__''

: 32° 15'66'' is the same as__**32.27°**__ Round to the nearest hundredth of a degree

: 136° is the same as __**2.37**__ radians. Round to the nearest hundredth of a radian.

: 6 radians is the same as__**1080°**__