LESSON 9-3

Practice B

Circles

Find the circumference of each circle, both in terms of π and to the nearest tenth. Use 3.14 for π.

1. circle with radius 10 in.

20π in. or 62.8 in.

2. circle with diameter 13 cm

13π cm or 40.8 cm

3. circle with diameter 18 m

18π m or 56.5 m

4. circle with radius 15 ft

30π ft or 94.2 ft

5. circle with radius 11.5 in.

23π in. or 72.2 in.

6. circle with diameter 16.4 cm

16.4π cm or 51.5 cm

Find the area of each circle, both in terms of π and to the nearest tenth. Use 3.14 for π.

7. circle with radius 9 in.

81π in^2 or 254.3 in^2

8. circle with diameter 14 cm

49π cm^2 or 153.9 cm^2

9. circle with radius 20 ft

400π ft^2 or 1256 ft^2

10. circle with diameter 17 m

72.3π m^2 or 226.9 m^2

11. circle with diameter 15.4 m

59.3π m^2 or 186.2 m^2

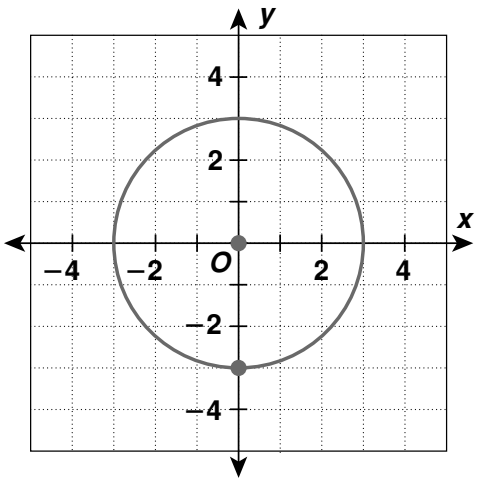
12. circle with radius 22 yd

484π yd^2 or 1519.8 yd^2

13. Graph a circle with center (0, 0) that passes through (0, −3). Find the area and circumference, both in terms of π and to the nearest tenth. Use 3.14 for π.

$A = 9\pi$ units^2 or 28.3 units^2;

$C = 6\pi$ units or 18.8 units



14. A wheel has a radius of $2\frac{1}{3}$ feet. About how far does it travel if it makes 60 complete revolutions? Use $\frac{22}{7}$ for π.

880 ft

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