Q1. (2017)

20 Work out the diameter of the circle $x^2 + y^2 = 64$

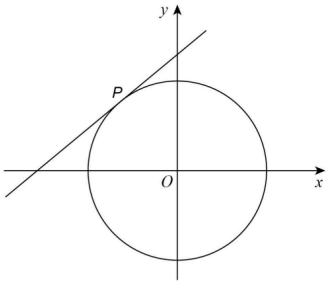
Circle your answer.

[1 mark]

8 16 32 128

Q2. (2017)

27 P (–1, 4) is a point on a circle, centre O



Not drawn accurately

Work out the equation of the tangent to the circle at P.

Give your answer in the form $y = mx + c$

[4 marks]

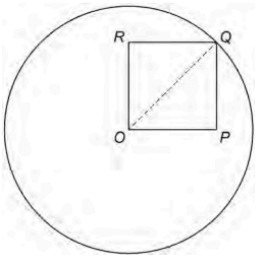
Q3. (2023)

26 A circle, centre O, has circumference 20π cm

Q is a point on the circle.

$OPQR$ is a **square**.

Not drawn accurately



perimeter of the square : circumference of the circle = $\sqrt{a} : \pi$ where a is an integer.

Work out the value of a.

You **must** show your working.

[4 marks]

$a =$ _____