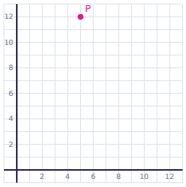
Task card 1 Polar Coordinates

The point P(5, 12) is written in polar form (r, θ). Find r.



Task card 2 Polar Coordinates

The point P(20, 21) is written in polar form (r, θ). Find r.

Task card 3 Polar Coordinates

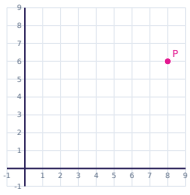
The point P(-24, -7) is written in polar form (r, θ). Find r.

Task card 4 Polar Coordinates

The point P(-21, -20) is written in polar form (r, θ). Find r.

Task card 5 Polar Coordinates

The point P(8, 6) is written in polar form (r, θ). Find r.

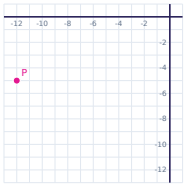


Task card 6 Polar Coordinates

The point P(8, 15) is written in polar form (r, θ). Find r.

Task card 7 Polar Coordinates

The point P(-12, -5) is written in polar form (r, θ). Find r.



Task card 8 Polar Coordinates

Convert the rectangular point (3, 3) to polar coordinates.

Task card 9 Polar Coordinates

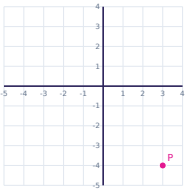
The point P(24, -7) is written in polar form (r, θ). Find r.

Task card 10 Polar Coordinates

Convert the rectangular point (-4√3, 4) to polar coordinates.

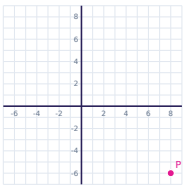
Task card 11 Polar Coordinates

The point P(3, -4) is written in polar form (r, θ). Find r.



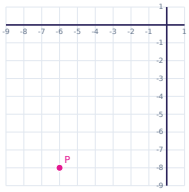
Task card 12 Polar Coordinates

The point P(8, -6) is written in polar form (r, θ). Find r.



Task card 13 Polar Coordinates

The point P(-6, -8) is written in polar form (r, θ). Find r.



Task card 14 Polar Coordinates

The point P(20, -21) is written in polar form (r, θ). Find r.

Task card 15 Polar Coordinates

The point P(-8, -15) is written in polar form (r, θ). Find r.

Task card 16 Polar Coordinates

The point P(-20, 21) is written in polar form (r, θ). Find r.

Task card 17 Polar Coordinates

Convert the rectangular point (-2, 2√3) to polar coordinates.

Task card 18 Polar Coordinates

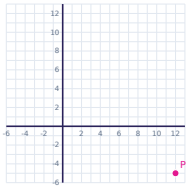
The point P(15, 8) is written in polar form (r, θ). Find r.

Task card 19 Polar Coordinates

Convert the rectangular point $(2\sqrt{3}, 2)$ to polar coordinates.

Task card 20 Polar Coordinates

The point P(12, -5) is written in polar form (r, θ). Find r.

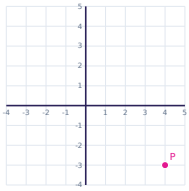


Task card 21 Polar Coordinates

The point P(15, -8) is written in polar form (r, θ). Find r.

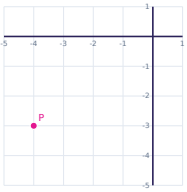
Task card 22 Polar Coordinates

The point P(4, -3) is written in polar form (r, θ). Find r.



Task card 23 Polar Coordinates

The point P(-4, -3) is written in polar form (r, θ). Find r.



Task card 24 Polar Coordinates

The point P(21, 20) is written in polar form (r, θ). Find r.

Polar Coordinates Task Cards

Recording sheet · Grade 12 · Give exact answers (radicals like $2\sqrt{3}$). Write rectangular points as (x, y) and polar points as (r, θ) with $r > 0$ and $0° \le \theta < 360°$.

Scan to check your answers

Name: _____ Date: _____

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24

Polar Coordinates Task Cards: Answer Key

Grade 12 · Easy

The answers online

1. 13	**2.** 29	**3.** 25
4. 29	**5.** 10	**6.** 17
7. 13	**8.** (3√2, 45°)	**9.** 25
10. (8, 150°)	**11.** 5	**12.** 10
13. 10	**14.** 29	**15.** 17
16. 29	**17.** (4, 120°)	**18.** 17
19. (4, 30°)	**20.** 13	**21.** 17
22. 5	**23.** 5	**24.** 29