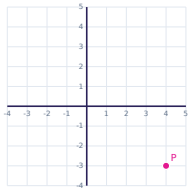
Task card 1 Polar Coordinates

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

Task card 2 Polar Coordinates

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

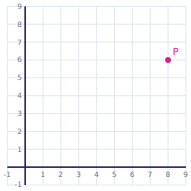


Task card 3 Polar Coordinates

Convert the rectangular point (-4, 0) to polar coordinates.

Task card 4 Polar Coordinates

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



Task card 5 Polar Coordinates

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

Task card 6 Polar Coordinates

Convert the rectangular point (-8, 0) to polar coordinates.

Task card 7 Polar Coordinates

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

Task card 8 Polar Coordinates

Convert the rectangular point (-√3, 1) to polar coordinates.

Task card 9 Polar Coordinates

Convert the rectangular point (0, -6) to polar coordinates.

Task card 10 Polar Coordinates

Convert the rectangular point (5, -5) to polar coordinates.

Task card 11 Polar Coordinates

Convert the rectangular point (-6, -6) to polar coordinates.

Task card 12 Polar Coordinates

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

Task card 13 Polar Coordinates

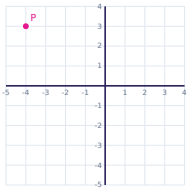
Convert the rectangular point (-5, 0) to polar coordinates.

Task card 14 Polar Coordinates

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

Task card 15 Polar Coordinates

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



Task card 16 Polar Coordinates

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

Task card 17 Polar Coordinates

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

Task card 18 Polar Coordinates

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

Task card 19 Polar Coordinates

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

Task card 20 Polar Coordinates

Convert the rectangular point $(-1, -\sqrt{3})$ to polar coordinates.

Task card 21 Polar Coordinates

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

Task card 22 Polar Coordinates

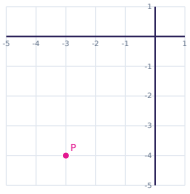
Convert the rectangular point $(4, 4\sqrt{3})$ to polar coordinates.

Task card 23 Polar Coordinates

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

Task card 24 Polar Coordinates

The point P(-3, -4) 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 · Medium

The answers online

1. $(4\sqrt{2}, 45°)$	**2.** 5	**3.** $(4, 180°)$
4. 10	**5.** $(2\sqrt{2}, 225°)$	**6.** $(8, 180°)$
7. $(8, 150°)$	**8.** $(2, 150°)$	**9.** $(6, 270°)$
10. $(5\sqrt{2}, 315°)$	**11.** $(6\sqrt{2}, 225°)$	**12.** $(4\sqrt{2}, 315°)$
13. $(5, 180°)$	**14.** 25	**15.** 5
16. $(4, 240°)$	**17.** $(6, 120°)$	**18.** $(8, 330°)$
19. $(6, 330°)$	**20.** $(2, 240°)$	**21.** $(4, 330°)$
22. $(8, 60°)$	**23.** $(6, 150°)$	**24.** 5