Task card 1 Polar Coordinates

Convert the rectangular point (-1, 0) to polar coordinates.

Task card 2 Polar Coordinates

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

Task card 3 Polar Coordinates

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

Task card 4 Polar Coordinates

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

Task card 5 Polar Coordinates

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

Task card 6 Polar Coordinates

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

Task card 7 Polar Coordinates

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

Task card 8 Polar Coordinates

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

Task card 9 Polar Coordinates

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

Task card 10 Polar Coordinates

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

Task card 11 Polar Coordinates

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

Task card 12 Polar Coordinates

Convert the rectangular point (0, 9) to polar coordinates.

Task card 13 Polar Coordinates

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

Task card 14 Polar Coordinates

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

Task card 15 Polar Coordinates

Convert the rectangular point (0, -7) to polar coordinates.

Task card 16 Polar Coordinates

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

Task card 17 Polar Coordinates

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

Task card 18 Polar Coordinates

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

Task card 19 Polar Coordinates

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

Task card 20 Polar Coordinates

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

Task card 21 Polar Coordinates

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

Task card 22 Polar Coordinates

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

Task card 23 Polar Coordinates

Convert the rectangular point $(0, -3)$ to polar coordinates.

Task card 24 Polar Coordinates

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

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 · Hard

The answers online

1. (1, 180°)	**2.** (6, 210°)	**3.** (4, 30°)
4. (6, 30°)	**5.** (8, 150°)	**6.** (√2, 315°)
7. (5, 270°)	**8.** (4√2, 135°)	**9.** (2√2, 315°)
10. (√2, 135°)	**11.** (2, 300°)	**12.** (9, 90°)
13. (3√2, 315°)	**14.** (2√2, 225°)	**15.** (7, 270°)
16. (6, 120°)	**17.** (6, 0°)	**18.** (8, 240°)
19. (2, 150°)	**20.** (3√2, 45°)	**21.** (8, 330°)
22. (6, 240°)	**23.** (3, 270°)	**24.** (6, 330°)