Solve the following trigonometric equations without the aid of a calculator (3pts each)

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Graph the following polar points (2pts each)

1. (2, 30°)
2. (-1, )
3. (

Determine the distance between the polar points using the polar distance formula (3pts each)

1. (4, 45°) and (6.5, 330°)
2. (2, ) and (3, )

Determine 4 similar points in to the point given below in polar form (2pts each)

1. (2, )
2. (-1, 120°)

Graph the following polar functions (3pts each)

1. r = 4
2. θ = -120°

Convert the polar coordinates to rectangular coordinates (3pts each)

1. (-2, 240°)
2. (

Convert the rectangular coordinates to polar coordinates (3pts each)

1. (3,8)
2. (2,-2)

Convert the polar equations to rectangular equations (3pts each)

1. r = 3 cos(θ)
2. r = -2

Convert the rectangular equations to polar equations (3pts each)

1. X = -7

Simplify the following complex numbers (3pts each)

1. (5 – 3i) + (-2 +4i)
2. (2 – 3i)(7 – 4i)

Determine the product or quotient of complex numbers in polar form (3pts each)

Use the formula for area of a sector to solve the problem below (4pts each)

1. Determine the area of a sector with a radius of 5 that spans an angle measure of 75°

MC 4 questions at 2pts each