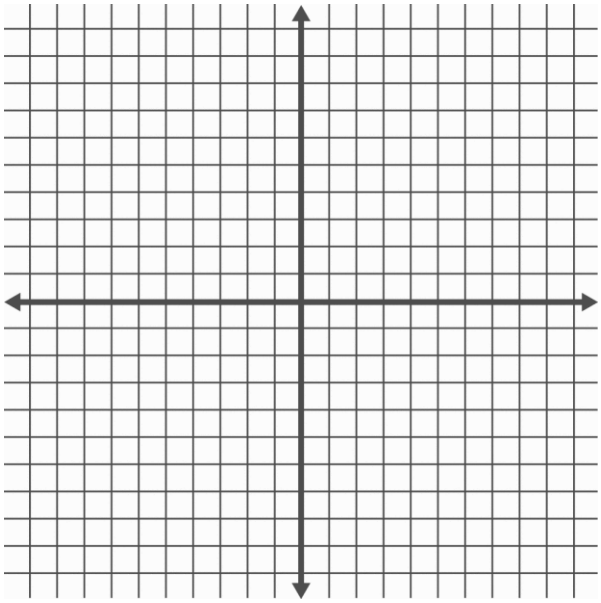
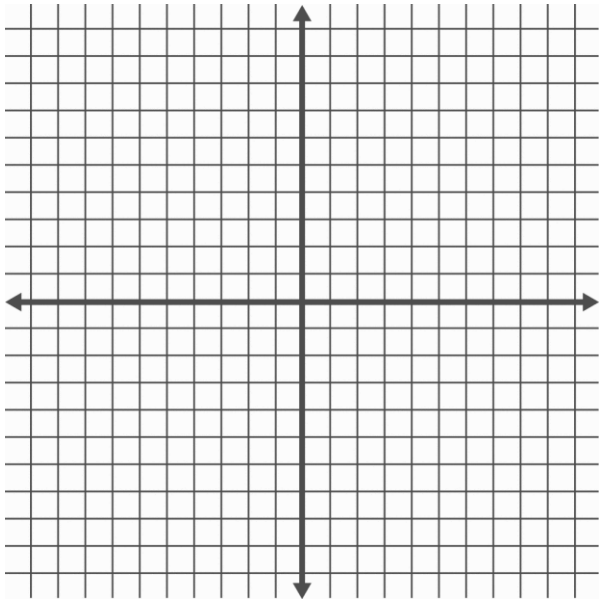
Unit 7.4 Converting Between Polar and Rectangular

1. Draw the right triangle using the rectangular coordinates and solve for the hypotenuse (r) and θ
    a. (3 + 4i)



    b. (-2 - i)



2. Convert the following from rectangular form to polar form
    a. $5 + 4i$

    b. $-3 - 7i$

    c. $-135 + j135$

    d. $100 - 125i$

    e. $2 + 6i$

    f. $2 + 0i$

    g. $80.3 - j30.45$

3. Convert the following from polar to rectangular
    a. $254 \angle 25°$

    b. $67 \angle -65°$

c. $20 \angle -45°$

d. $36 \angle -145°$

e. $128 \angle 145°$

f. $12 \angle 157°$