1) Solve the following equations. (remember that a negative times a negative is positive, and a negative times a positive is negative):

$$x^2 + 7x + 12 = 0$$
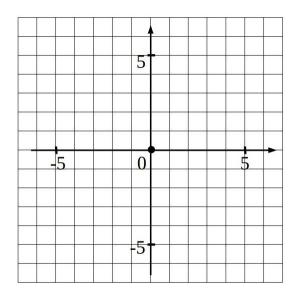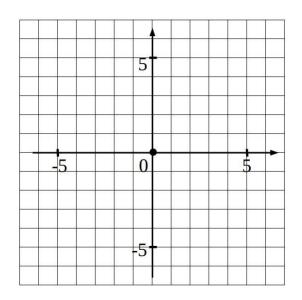
$$x^2 - 7x + 12 = 0$$

$$x^2 + x - 12 = 0$$

$$x^2 - x - 12 = 0$$

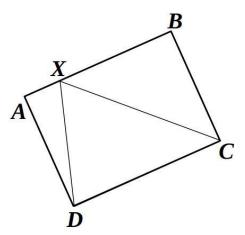2) Fill in the table and plot the graph for *f(x) = x+1* and *f(x) = x²*

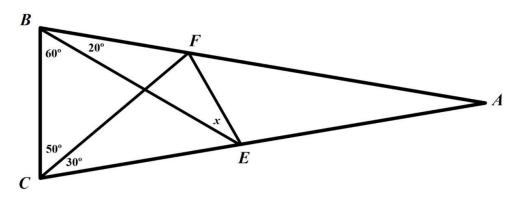| *x*	-5	-4	-3	-2	-1	0	1	2	3	4	5
f(x) = x+1											

x	-5	-4	-3	-2	-1	0	1	2	3	4	5
f(x) = x²											

3) The area of the rectangle ABCD on the drawing is x. Show that the area of the △DXC is ½x.

4) Find the angle x.

5) Find the difference between the dark and light grey areas.
(Hint: not sure what is the area of the overlap? Call it x.)

5 cm

3 cm