

- 4) The center of the circle whose diameter is [AB] with A(4,2) and B(0,6) is
 - A) (2,4)
 - B) (4,0)
 - C) (4,2)
 - D) (2,8)
 - E) None of the above.

- 5) The following two lines 2y 8 = 0, and y + 1 = 0, are:
 - A) perpendicular
 - B) parallel
 - C) Neither
 - E) None of the above.



V- (4 points) Find the equation of the line passing through (-5,1) and perpendicular to 2y-4x=9 .

11) The equation of the line passing through (1,-1) and perpendicular to 4y-2x=7

A)
$$y = -4x + 3$$

B)
$$y = -5x + 4$$

C)
$$y = -3x + 2$$

D)
$$y = -2x + 1$$

E) None of the above.



IV Let
$$f(x) = -4x^2 + 8x + 2$$

Find the $X - intercepts$ and $Y - intercepts$ of $f(x)$.

IV- (4 points)
Let
$$f(x) = x^2 - 2x + 8$$
 a- Find the $X-intercepts$ and $Y-intercepts$ of
 $f(x)$.



2	(3	noints) Find the ed	mation	of the	circle v	vhose	center is A	(1.0)	and	nassino	through l	3(4.5)
~	, (,	ooinis,	<i>)</i> I ma me ea	uauon	or the	CHCIC V	WHOSE	center is A	(1,0)	and	passing	unough	ノ(サ,シ).

3) (*2 points*) Find the equation of the line that passes through the point (2,3) and perpendicular to the line 4y-x-7=0:





EXTRA PRACTICE

- 1- Plot each point and form the triangle ABC. Verify that the triangle is aright angle triangle. A(-5,3)B(6,0), C(5,5).
- **2-** Find the equation of the line passing through (1, -2) and parallel to the line 6x 2y = 5
- 3- Find the equation of the line passing through (2,3) and perpendicular to the line x + 2y = 3
- 4- Find the center, radius, and sketch the graph of the following circle: $(x-1)^2+y^2=16$