Pg 818, #6 $y = x^2 - 3x + 2$

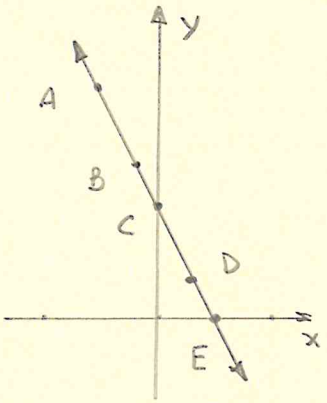
a) $(2,0)$: $2 \stackrel{?}{=} 0^2 - 3\cdot 0 + 2 = 2$ ✓ YES

b) $(-2,8)$: $8 \stackrel{?}{=} (-2)^2 - 3(-2) + 2 = 4 + 6 + 2 = 12$ × NO

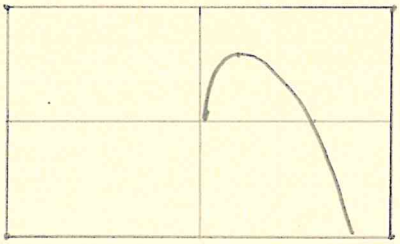
Pg 818, #12

$8x + 4y = 24 \Rightarrow y = -2x + 6$

x	-3	-1	0	2	3
y	12	8	6	2	0
Pt.	$(-3,12)$ A	$(-1,8)$ B	$(0,6)$ C	$(2,2)$ D	$(3,0)$ E



Pg 819, #40 $y = (6-x)\sqrt{x}$



y-int. $(x=0)$: $y = (6-0)\sqrt{0} = \boxed{0}$

x-int. $(y=0)$ Solve: $0 = (6-x)\cdot\sqrt{x}$

$\boxed{x = 0 \text{ or } x = 6}$

Pg 819, #58 $x^2 + y^2 = 36 \Rightarrow$ Center: $(0,0)$ radius $= 6$

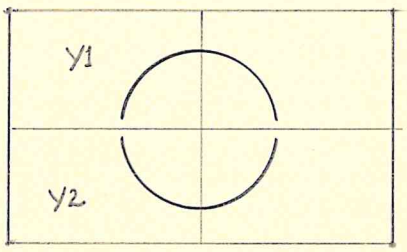
Solve for y:

$y^2 = 36 - x^2$

$y = \pm\sqrt{36 - x^2}$

$y1 = \sqrt{36 - x^2}$

$y2 = -\sqrt{36 - x^2}$



Window: $[-14, 14] \times [-9, 9]$