

Get out your Study Guide and get ready for your test!

(17) $2i$

(10) $(3x - 5)(3x + 5) = 0$

$3x - 5 = 0$
 $3x = \frac{5}{3}$
 $x = \frac{5}{9}$

$x = \frac{5}{3}, -\frac{5}{3}$

(12) $x = -4, 3, -1$

(11) $x^2 + 4x + 3 = 0$

$(x + 3)(x + 1) = 0$

(24) $f(x) = x(x^2 + 4) = x^3 + 4x$ $x = -3, -1$

degree: 3
 odd
 positive

Roots: 0 $m:1$, $2i$ $m:1$, $-2i$

$x^2 + 4 = 0$
 $x^2 = -4$
 $x = \pm\sqrt{-4}$

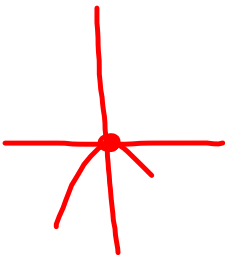
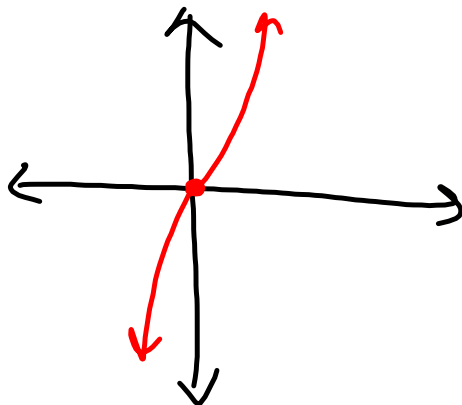
$x = \pm 2i$

$\sqrt{-4} = \sqrt{4 \cdot -1}$
 $= \pm 2i$

e.b

$x \rightarrow -\infty, f(x) \rightarrow -\infty$

$x \rightarrow \infty, f(x) \rightarrow \infty$



Pascal's Triangle

					1										
					1		1								
				1		2		1							
			1		3		3		1						
		1		4		6		4		1					
	1		5		10		10		5		1				
1		1		6		15		20		15		6		1	
	1		7		21		35		35		21		7		1

Pascal's Triangle

				1												
				1		1										
			1		2		1									
		1		3		3		1								
	1		4		6		4		1							
1		1		5		10		10		5		1				
	1		6		15		20		15		6		1			
1		1		7		21		35		35		21		7		1