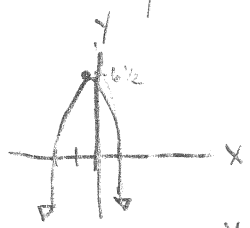
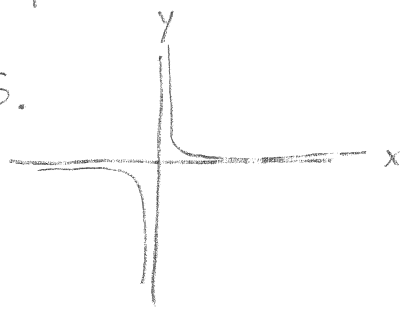
pg. 70 # 23, 25, 45, 49, 55, 81 Garrett, MO, Steph, Craig

23. yes



25.



NO.

45. $x^2 + 7x + 9 = \boxed{\frac{-7 \pm \sqrt{13}}{2}}$

49. $\sqrt[5]{a^3} = (a^3)^{1/5}$

$= a^{3/5}$

55. $\frac{1}{\sqrt{t^5}} = t^{-5/2}$

81. $\frac{x^3}{(x-6)(x+1)} = x = -6$

$x = 1$

$\boxed{(-\infty, -1)(-1, 6)(6, \infty)}$

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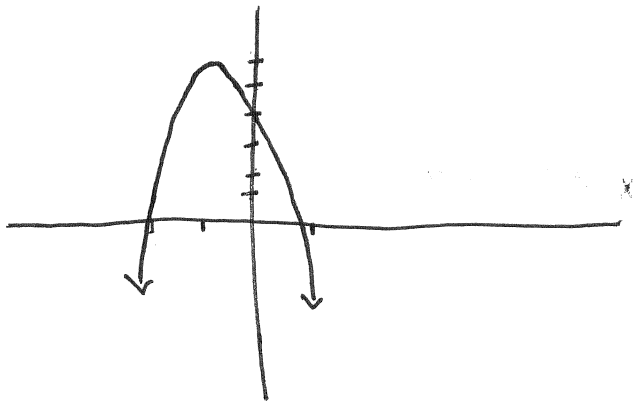
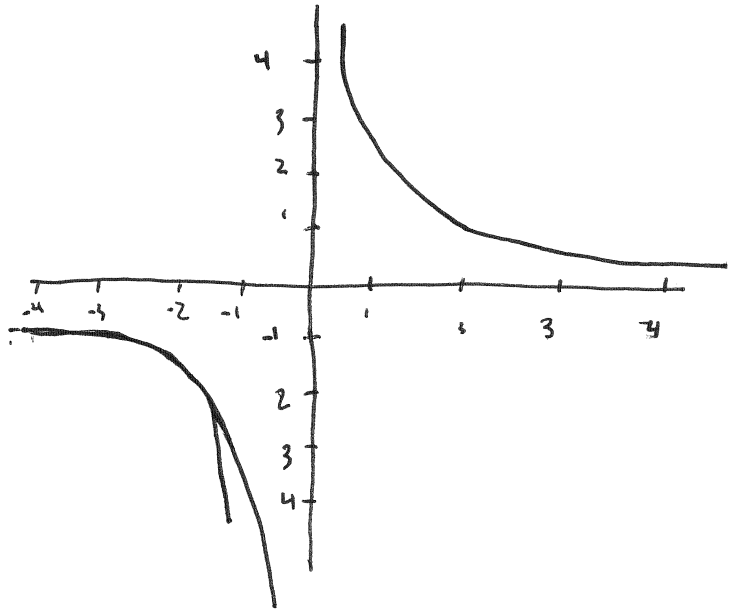
Mitch, Emily, Tiana

23.



25.



45. $x + 7 + \frac{9}{x} = 0$

$-7 \qquad\qquad -7$

$x + \frac{9}{x} = -7$

$-x \qquad\qquad -x$

$\left(\frac{9}{x}\right)x = (-7 - x)x$

$9 = -7x - x^2$

$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

$x = \frac{-7 \pm \sqrt{13}}{2 \cdot 1} = -5.303 \text{ or } -1.697$

49. $\sqrt[5]{a^3} = a^{3/5}$

55. $\frac{1}{\sqrt{t^5}} = t^{-5/2}$

81. $f(x) = \frac{x^3}{x^2 - 5x + 6}$

$(x-3)\ (x-2)$

$x \neq 2,\ x \neq 3$

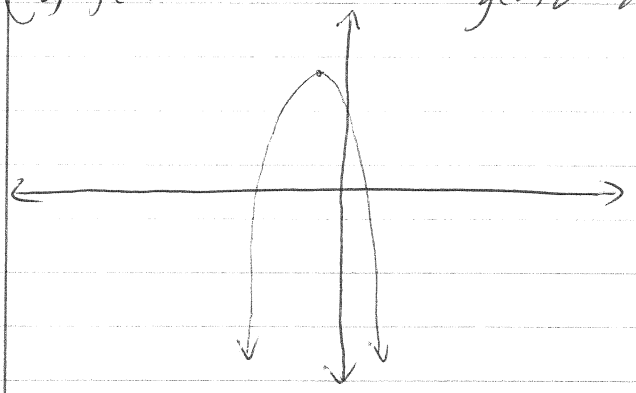
83. $f(x) = \sqrt{5x+4}$ $\quad x \geq -4/5$

Paul Newby
Maggie Bianco
Caitlin Mortaugh
Ian Snell

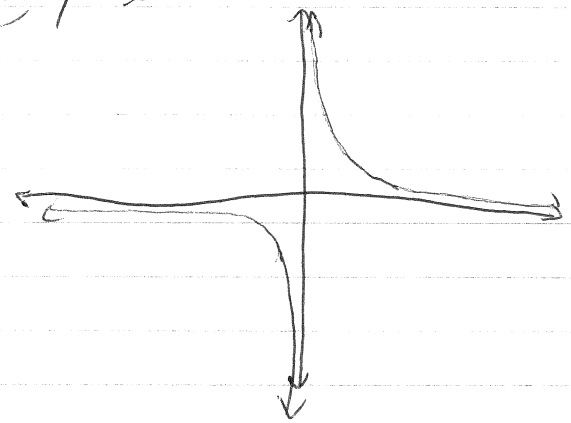
Calc.

Pg. 70
23, 25, 45, 49, 55, 81, 83

(23) $g(x) = -3x^2 - 4x + 5$



(25) $y = \frac{2}{x}$



(45) $x^2 + 7x + 9 = 0$ $\quad x = -5.3, -1.69$

(49) $\sqrt[5]{a^3} = a^{3/5}$

(55) $\frac{1}{\sqrt{t^5}} = \frac{1}{t^{2/5}} = t^{-5/2}$

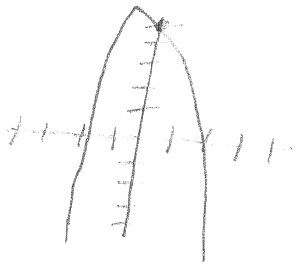
(81) $\frac{x^3}{x^2 - 5x + 6} \qquad \frac{x^3}{(x-2)(x-3)}$ $\quad x \neq 2, 3$

Andrea, Haley, Edward, Alivia

PS 7.0 #23, 25, 45, 49, 55, 61, 83, 85

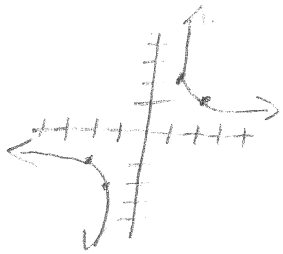
(23) $g(x) = -3x^2 - 4x + 13$

x	y
2	-15
1	-2
0	5
-1	6
-2	9



(25) $y = \frac{2}{x}$

x	y
2	1
1	2
0	undef.
-1	-2
-2	-1



(45) $(x + 7 + \frac{9}{x})x = (0)x$

$x^2 + 7x + 9 = 0$

$x = \frac{1}{2}(-7 - \sqrt{13}) = -5.3028$

$x = \frac{1}{2}(\sqrt{13} - 7) = -1.6972$

(49)