9.1 p555

(1) $\sqrt{36} = 6$ (3) $-\sqrt{36} = -6$ (5) $\sqrt{-36}$ Not Real

(7) $\sqrt{\frac{1}{9}} = \frac{1}{3}$ (9) $\sqrt{\frac{1}{100}} = \frac{1}{10}$ (11) $-\sqrt{\frac{1}{36}} = -\frac{1}{6}$

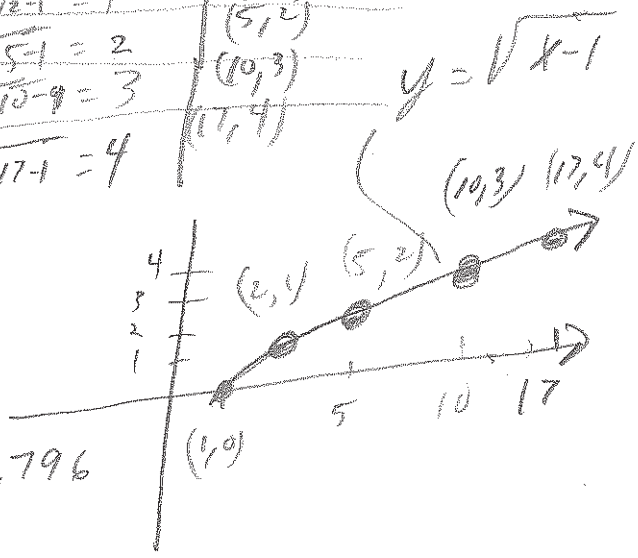
(13) $\sqrt{-\frac{1}{36}}$ Not Real (15) $\sqrt{0.04} = 0.2$ (17) $\sqrt{33-8} = \sqrt{25} = 5$

(19) $\sqrt{2.32} = \sqrt{64} = 8$ (21) $\sqrt{144+25} = \sqrt{169} = 13$ (23) $\sqrt{144}+\sqrt{25} = 12+5 = 17$

(25) $\sqrt{25-144} = \sqrt{-119}$ Not Real

(27) $y = \sqrt{x-1}$

x	$y = \sqrt{x-1}$	(x, y)
1	$\sqrt{1-1} = 0$	(1, 0)
2	$\sqrt{2-1} = 1$	(2, 1)
5	$\sqrt{5-1} = 2$	(5, 2)
10	$\sqrt{10-9} = 3$	(10, 3)
17	$\sqrt{17-1} = 4$	(17, 4)



(29) $y = \sqrt{x-1}$ has the same general shape as $y = \sqrt{x}$

$y = \sqrt{x-1}$ has a different x-int than $y = \sqrt{x}$

(31) $\sqrt{7} \approx 2.646$ (33) $\sqrt{23} \approx 4.796$

(35) $-\sqrt{65} \approx -8.062$ (37) $12+\sqrt{11} \approx 15.317$

(39) $\frac{12+\sqrt{11}}{2} \approx 7.658$ (41) $\frac{-5+\sqrt{32+1}}{6} \approx 2.153$

4.1 p556

(43) $\sqrt{13-5} = \sqrt{8}$
≈ 2.828

(45) $\sqrt{5-13} = \sqrt{-8}$
Not Real

(47) $\sqrt[3]{64} = 4$

(49) $\sqrt[3]{-27} = -3$

(51) $-\sqrt[3]{8} = -2$

(53) $\sqrt[3]{\frac{1}{125}} = \frac{\sqrt[3]{1}}{\sqrt[3]{125}}$
$= \frac{1}{5}$

(55) $\sqrt[3]{-1000} = -10$

(57) $\sqrt[4]{1} = 1$

(59) $\sqrt[4]{16} = 2$

(61) $-\sqrt[4]{16} = -2$

(63) $\sqrt[4]{-16}$ Not Real

(65) $\sqrt[5]{-1} = -1$

(67) $\sqrt[6]{-1}$ Not Real

(69) $-\sqrt[4]{256} = -4$

(71) $\sqrt[6]{64} = 2$

(73) $-\sqrt[5]{32} = -2$

(75) $\sqrt{2x}$
$2x \geq 0$
$x \geq 0$

(77) $\sqrt{x-2}$
$x-2 \geq 0$
$x \geq 2$

(79) $\sqrt{2-x}$
$2-x \geq 0$
$2 \geq x$
$x \leq 2$

(81) $\sqrt{x^2+2}$
$x^2+2 \geq 0$
$x^2 \geq -2$
All real #'s

(83) $\sqrt{12-2x}$
$12-2x \geq 0$
$12 \geq 2x$
$2x \leq 12$
$x \leq 6$