Exam 1 Review.

$$d) (\sqrt{x} - \sqrt{x})^{6} = (\sqrt{x})^{6} (-\sqrt{x})^{4} + 6 (\sqrt{x})^{5} (-\sqrt{x})^{4} + 15 (\sqrt{x})^{4} (-\sqrt{x})^{5} + 20(\sqrt{x})^{3} (-\sqrt{x})^{3} + 15(\sqrt{x})^{6} (\sqrt{x})^{4} + 6(\sqrt{x})^{4} + 6(\sqrt{x})^{4} + 6(\sqrt{x})^{4} + 6(\sqrt{x})^{5} + (-\sqrt{x})^{6}$$

$$= \chi^{3} - 6 \chi^{2} \sqrt{x^{1}} \sqrt{x} + 30 \chi^{2} - 40 \sqrt{x} \sqrt{x}$$

$$+ 60 \chi - 24 \sqrt{x} + 30 \chi^{2} - 40 \chi \sqrt{x}$$

$$+ 60 \chi - 24 \sqrt{x} + 6 \int_{-x}^{2} (-\sqrt{x})^{4} + 6 \int_{-x}^{2} (-\sqrt{x})^{4$$

$$u = \frac{2x-3}{x-4}$$

$$u = \frac{3}{x-4}$$

$$u = \frac{3}{$$

5'
$$\frac{1}{3}$$
 $\frac{3}{(x-3)^{3}} = -\frac{3}{4}$
 $(x-3)^{3} = -\frac{3}{4}$
 $\frac{1}{3}$ $\frac{3}{(x-3)^{3}} = \frac{5}{3}$
 $\frac{1}{3}$ $\frac{3}{(x-3)^{3}} = \frac{5}{3}$
 $\frac{1}{3}$ $\frac{3}{3}$ $\frac{3}{3}$

= 3 + 4

$$8 = (2)^3$$

4XZ

$$X = -12 \pm \sqrt{144} - 4(2)(3)$$

$$= -12 \pm \sqrt{144} - 24$$

$$= -12 \pm \sqrt{120}$$

$$= -12 \pm \sqrt{120}$$

$$= -12 \pm 2\sqrt{30}$$

$$= -6 \pm \sqrt{30}$$

120=4x30

$$2x^{2} - x - 3 > 0$$

$$x = -1, x = 3$$

$$x \le -1, x > \frac{3}{2}$$

$$x \le -1, x > \frac{3}{2}$$

$$x \ne -5, x = 3$$

$$x \ne -5, x = 3$$

$$= 50$$

$$5x \le 2$$

$$5x \le 3$$

$$- | 4| - | 4| - | 4| - | 4|$$

$$\begin{array}{c|c}
\lambda & 3-x \\
\hline
 & \times +5 \\
 & \times \neq -5 \\
 & \times = 3
\end{array}$$

$$\frac{x-2}{x+3} \le 4 \qquad x \ne -3$$

$$\frac{x-2}{x+3} - 4 = 0$$

$$x - 2 + 4(x+3) = 0$$

$$x - 2 - 4x - 12 = 0$$

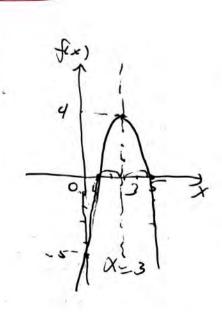
$$-3x - 14 = 0$$

$$-3x = 14$$

$$x = -14$$

#17
$$f(x) = -x^2 + 6x - 5$$

w) $x = -\frac{5}{2a} = -\frac{5}{2} = 3$
 $y = -9 + 18 - 5 = 4$
Vertex point! (3,4)



SH=-16+2+1288=192 -16t2+128t-192=0 $t^2 - 8t + 12 = 0$ t = 2, 6Tw w w 10 P= P+30= 360 l= 360 - 3W tolw = (360-3W) W = 3600 - 302 A(w) = -3w2+360w Lw = - 360 = 601 [l=310-150 14 5H = -16t + 76t > 80 -16t2+96t-80 >0 t2-6+ +5 t=1,5 15t 55 solve: 2 des. C, M, (3== 1+ , M=ax+6 x3 (grouping), x4 (factoring or my method) toil (102), [Fet/DIR] (Storing 2nd)

$$\int_{-4}^{4} |\omega|^{4} \times -|\kappa|^{\frac{5}{16}} \leq |\kappa|^{\frac{3}{16}} + 3 \times (|\omega|)$$

$$\int_{-4}^{6} |\omega|^{4} \times -|\kappa|^{\frac{5}{16}} \leq |\omega|^{\frac{3}{16}} + |\omega|^{\frac{3}{16}} \times |\omega|^{\frac{3}{16}} + |\omega|^{\frac{3}{16}} +$$

#4.
$$3/x+3' = 2$$

 $(x+3)^{1/3} = 2$
 $x+3 = 2^3$
 $1x = 8-3$
 $= 51$

$$X^{2} = 10 \times 4 \times 23 > 0$$

$$X = \frac{10 \pm \sqrt{100 - 4(23)}}{2}$$

$$= \frac{10 \pm \sqrt{8}}{2}$$

$$= \frac{10 \pm 2\sqrt{2}}{2}$$

$$= \frac{5 \pm \sqrt{2}}{2}$$

$$= 5 \pm \sqrt{2}$$

$$X \leq 5 - \sqrt{2}$$
 $X \geq 5 + \sqrt{2}$

Review # 13

$$\sqrt{\frac{1}{32}} = \frac{4}{2\pi}$$

$$\frac{L}{32} \Rightarrow \left(\frac{2}{\pi}\right)^2$$

#15

A