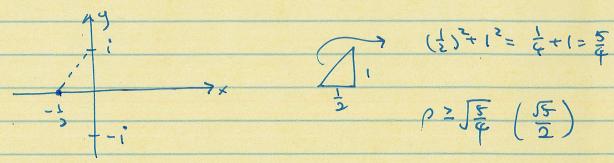
Quiz 2



2. 
$$y'' + \frac{3x}{2x(xz)^2}y' + \frac{(x-z)}{2x(xz)^2}y = 0$$

$$\frac{\pm 20}{10} \cdot \lim_{\lambda \to 0} \frac{3\lambda}{2\lambda(\lambda - 1)^2} = 0$$

$$\lim_{\lambda \to 0} \frac{3\lambda}{2\lambda(\lambda - 1)^2} = 0$$

$$\lim_{\lambda \to 0} \frac{2\lambda}{2\lambda(\lambda - 1)^2} = 0$$

$$\times = 2: | \text{im} (\times - 2) \cdot \frac{3 \times}{2 \times (\times - 2)^2} = \infty$$
 Triegular

$$2x^{2}y'' + 3xy' - y = 0 \qquad x > 0$$

$$x^{2}y'' + \frac{3}{2}xy' - \frac{1}{2}y = 0$$

$$r(r-1) + \frac{3}{2}r - \frac{1}{2} = 0$$
  
 $2r(r-1) + 3r - 1 = 0$   
 $2r^2 + r - 1 = 0$