



ERJAVEC

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Adal Mysices

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1.)
$$\frac{-x-5}{x-3} > 0$$

$$-x-5=0$$

$$\frac{-\times -5}{\times -3} > 0 \iff x \in (-5,3)$$

$$|z| = \sqrt{(-3\sqrt{3}^2)^2 + (-3)^2} =$$

$$=\sqrt{9.3+9}=\sqrt{36}=6$$

$$Z = \sqrt{38} \left(\cos \frac{7\pi}{6} + i \cdot \sin \frac{7\pi}{6} \right)$$

$$sin f = \frac{-3\sqrt{3}}{6}$$
 $f = \frac{717}{6}$
 $sin f = \frac{-3}{6} = \frac{-1}{2}$
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$$\sin f = \frac{-3}{6} = \frac{-1}{2} f = \frac{717}{6}$$

3.)
$$\lim_{m\to\infty} \left(\frac{3m-1}{3m}\right)^{3m} =$$

$$= e^{\lim_{m\to\infty} \left(\frac{3m-1}{3m}-1\right)\cdot 3m} =$$

$$=e^{\lim\left(\frac{3m-1}{3m}-\frac{3m}{3m}\right)\cdot 3m}=$$

$$= e^{\lim \left(\frac{3n-1}{3m}\right) \cdot 3m} = e^{\lim \left(-1\right)}$$

$$= e^{-1}$$



: Took