

$$\frac{0.19}{2} \quad \frac{x^2+2}{x^2+1} + m \frac{x^2+1}{x^2+2} = 3 \quad / (x^2+1)(x^2+2)$$

$$(x^2+2)^2 + m(x^2+1)^2 = 3(x^2+1)(x^2+2)$$

$$x^4 + 4x^2 + 4 + mx^4 + 2mx^2 + m = 3x^4 + 9x^2 + 6$$

$$x^4(2-m) + x^2(5-2m) + (2-m) = 0$$

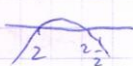
$$t^2(2-m) + t(5-2m) + (2-m) = 0 \quad x^2 = t$$

$$\Delta > 0, \quad \frac{-b}{a} > 0, \quad \frac{c}{a} > 0$$

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$$0 < \Delta = (5-2m)^2 - 4(2-m)^2 = 25 - 20m + 4m^2 - 16 + 16m - 4m^2 = -4m + 9 \quad m < 9/4$$

$$0 < \frac{-b}{a} = \frac{2m-5}{2-m}$$



$$2 < m < 2.5$$

$$0 < \frac{c}{a} = \frac{2-m}{2-m} \rightarrow m \neq 0$$

$$2 < m < 2.5$$

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