

$$\Rightarrow r_n^r - n + 1 = 0 \quad n = \frac{1 \pm \sqrt{1+1}}{2} \Rightarrow \frac{1 \pm \sqrt{2}}{2} \Rightarrow \frac{1 + \sqrt{2}}{2}$$
~~$$a \ll 0 : \frac{P_{\text{max}}}{P_{\text{min}}} \approx \frac{1}{1 - \frac{1}{2} \frac{P_{\text{max}}}{P_{\text{min}}}}$$~~
$$c) S^T - KSP = S(S^T - KP) = -K(9+4) = -13A$$

~~$$\left(-\frac{-3}{1}\right)^3 - 3\left(\frac{3}{1}\right)(-2) = 90$$~~

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$$\rightarrow (-3)^2 - 4(2)(a) \geq 0$$

$$(-3)^2 - 4(2)(a) = 0$$

$$(-3)^2 - 4(2)(a) < 0$$

$$(-3)^2 - 4(2)(a) > 0$$