

IS Curve - Supply Function - Real GDP: y_t

$$a_1 = \varepsilon \quad a_2 = 41 \quad q_1 = \varepsilon_0 + cd \quad cd = r_1 \quad d \cdot V \quad \underline{1V}$$

$$q_n = \varepsilon_0 + (n-1)V \quad \hookrightarrow \quad \varepsilon_0 + 4n - V \quad V_n + r_1$$

$$r_0 = V_n + r_1 \quad V_n = 1V \quad \overline{n = 41}$$

(5)

$$1.0, 1.1, 1.1, 1.1, \dots \quad V_n + 4r_1 \leq 449 \quad V_n \leq 9.1 \quad 1 < \frac{9.1}{V}$$

$$n \leq 119$$

$$\boxed{119, 119}$$

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$$q_{n+1} + q_{n+1}r + q_{n+1}r^2 - 4n + 1r$$

$$ca_1 + (n+1)r + r^2 - 4n + 1r$$

$$ca_1 + (r_n + c)d - 4n + 1r$$

$$ca_1 + cnd + cd - 4n + 1r$$

$$\overline{dc - r} \hookrightarrow \quad ca_1 - 4n - 4r - 4n + 1r$$

$$ca_1 - 4 \cdot 1r \quad ca_1 = 1 \quad a_1 = 41$$

$$a_1V + a_2 \quad ca_1 + rcd \hookrightarrow 1r - \varepsilon_0 \quad \underline{1r}$$

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$$r^{n-1}, r^{n+1}, r^n = r$$

$$r^{n+1} = r^n + r^n - \varepsilon$$

$$r^{n+1} - r^n - r^n = -\varepsilon \quad \hookrightarrow \quad r^n(r - r^n - 1) = -\varepsilon \quad r^n(r - r^n) = -\varepsilon \quad \underline{r^n = r}$$

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$$r^r = 1, r$$

$$r^r = 1$$

$$r^r = 1, r$$

$$1r = 1r = \underline{1r}$$

$$t_1r - t_0 = \omega \rightarrow r d = \omega \rightarrow d = r_1 \omega$$

$$\left. \begin{array}{l} t_0 = t_1 = 0 \\ t_0 + t_1 = r d \end{array} \right\} \hookrightarrow \quad t_1 = 0 \quad t_1 = 0 \quad \hookrightarrow \quad cd = 1 \quad \left[\begin{array}{l} d = r_1 \omega \\ cd = 1 \end{array} \right]$$

$$\hookrightarrow r t_1 + r d = r \omega \rightarrow t_1 = -1r_1 \omega$$

$$cv_1 d + (n-1)(-4d) \hookrightarrow t_1 = a_1 r_1 d \quad cv_1 d + r(-4d)$$

$$t_1 = t_1 + r d \rightarrow -1r_1 \omega + \omega = r v_1 \omega$$

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$$\delta a + \delta d = \frac{\delta}{r} a + \frac{c\delta}{r} d \Rightarrow \frac{\delta}{c} a - \frac{\delta}{c} a + \frac{c\delta}{c} d - \frac{r\delta}{c} d \Rightarrow$$

$$(\frac{1}{c} a = \frac{\delta}{c} d) \Rightarrow 1. a = d \quad \text{cancel}$$

$$\frac{ar}{a_1} = \frac{cx}{a} \Rightarrow$$

$$t_n = t_{n-1} + \delta \quad / \quad \frac{t_q^r - t_0^r}{t_v} \Rightarrow \quad t_q = t_q + \delta \Rightarrow$$

$$t_q^r = (a_1 + \epsilon_0)^r \Rightarrow a^r + 14... + n \cdot a$$

$$t_0^r = (a_1 + \epsilon)^r \Rightarrow a^r + \epsilon \dots + \epsilon \cdot a$$

$$\frac{a^r + 14... + n \cdot a}{14... + \epsilon \cdot a} \quad \frac{a^r + \epsilon \dots + \epsilon \cdot a}{14... + \epsilon \cdot a}$$

$$t_q + \epsilon a = t_v + t_v = 2t_v$$

$$t_q - t_0 = \frac{\epsilon d}{14... + \epsilon \cdot a} \Rightarrow \frac{\epsilon \cdot (14... + a)}{14... + \epsilon \cdot a} \Rightarrow \epsilon$$

$$(2t_v)(\epsilon d) = n d = \epsilon a \quad \text{cancel}$$

$$c(1 - 4\sqrt{c}), \quad r + \sqrt{r}$$

$$\downarrow \quad \downarrow$$

$$t_1 \quad t_{1\epsilon}$$

$$r + \sqrt{r} = r - 14\sqrt{r} + 14d$$

$$14\sqrt{r} = 14d \quad \text{cancel}$$

$$\frac{r_1}{t_1} = \frac{c}{\epsilon_{n-1}}$$

$$t_{n+1} \quad t_{n-1} = t_n + (r_{n-1})d$$

$$d \cdot \frac{c}{\epsilon_{n-1}} = \frac{10}{r_{n-1}}$$

$$14a_{n+1} \Rightarrow a_1 + n(\frac{10}{r_{n-1}}) = 11$$

$$n(\frac{10}{r_{n-1}}) = 9 \quad \frac{10n}{r_{n-1}} = 9 \quad 14n - 9 \geq 10n$$

$$r_{n-1} \cdot 9 \quad \text{cancel}$$

$$t_v + t_c = t_{n\epsilon} + t_n \Rightarrow \quad r_n + \epsilon \cdot r \quad r_n + 14 \dots$$

$$t_n = c t_\epsilon \quad a_1 + v d = c(a_1 + c d) \Rightarrow a_1 + v d = c a_1 + c^2 d$$

$$\text{cancel} \quad a_1 = d$$

$$a_1, a-d$$

$$\frac{r}{14}$$